CF-570

US Model
Canadian Model

FM/AM STEREO CASSETTE-CORDER

SPECIFICATIONS

GENERAL

Power Requirements:	120V ac, 60Hz 12V dc Battery size– D, 8 pcs. (IEC designation R20) Car battery cord DCC-9 for 12V car battery
Power Consumption:	12 W ac
Power Output: **(at dc operation)**	2W(1Wx2) at 10% distortion (US model) 4W(2Wx2) at 10% distortion (Canadian model)
Speakers:	Two-way Two approx. 16cm(6½ inches) dia, woofer, 4Ω Two approx. 5cm(2 inches) dia. tweeter, 4Ω
Dimensions:	Approx. 475(W) x 298(h) x 128(d) mm 18¾(W) x 11¾(h) x $5^1/_8$(d) inches including projecting parts and controls, not including handle
Weight:	Approx. 7 kg, 15 lb 7 oz with batteries

RADIO SECTION

Antennas:	FM: telescopic antenna AM: ferrite-rod antenna
Frequency Ranges:	FM: 87.5–108MHz (3.43–2.78m) AM: 530–1,605kHz (566–187m)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TAPE RECORDER SECTION

Track:	4-track 2-channel stereo or monaural
Fast Forward Rewind Time:	Approx. 110 seconds with Sony cassette C-60
Frequency Response:	50–10,000Hz with standard cassette, with the TAPE SELECT switch set to NORMAL 50–13,000Hz with Chromium dioxide cassette with the TAPE SELECT switch set to CrO_2
Wow and Flutter:	0.19% (WRMS)
S/N Ratio:	45dB
Total Harmonic Distortion:	2.5%
Battery Life:	In continuous recording with built-in microphone: Approx. 11 hours with Eveready Heavy Duty batteries No. 1250
Inputs:	MIC (two mini jacks) Sensitivity: 0.2mV (–72 dB) Impedance: for low-impedance microphone

— Continued on page 2 —

SONY®

SERVICE MANUAL

LINE IN (two phono jacks)
Sensitivity. 0.2V (–12dB)
Impedance: 10kΩ

Outputs: LINE OUT (two phono jacks)
Normal level: 0.44V (–5dB) at
load impedance 100kΩ
Load impedance: more than 10kΩ
HEADPHONES (binaural jack)
Load impedance: 8Ω

Other Jack: Remote control jack

0dB=0.775V

MODEL IDENTIFICATION

– Specification Label –

US Model

SONY® MODEL NO. CF-570
STEREO CASSETTE-CORDER 2 BANDS

FREQUENCY RANGE:
FM 87.5 – 108 MHz
AM 530 – 1605 kHz
AC: 120 V 60 Hz 12 W
DC: 12 V FLASHLIGHT BATT
SIZE D x 8 OR EQUIV

MADE IN JAPAN

DESIGN CERTIFIED AS COMPLYING WITH F.C.C. RULES
PART 15, IN EFFECT AS OF DATE OF MANUFACTURE

Canadian Model

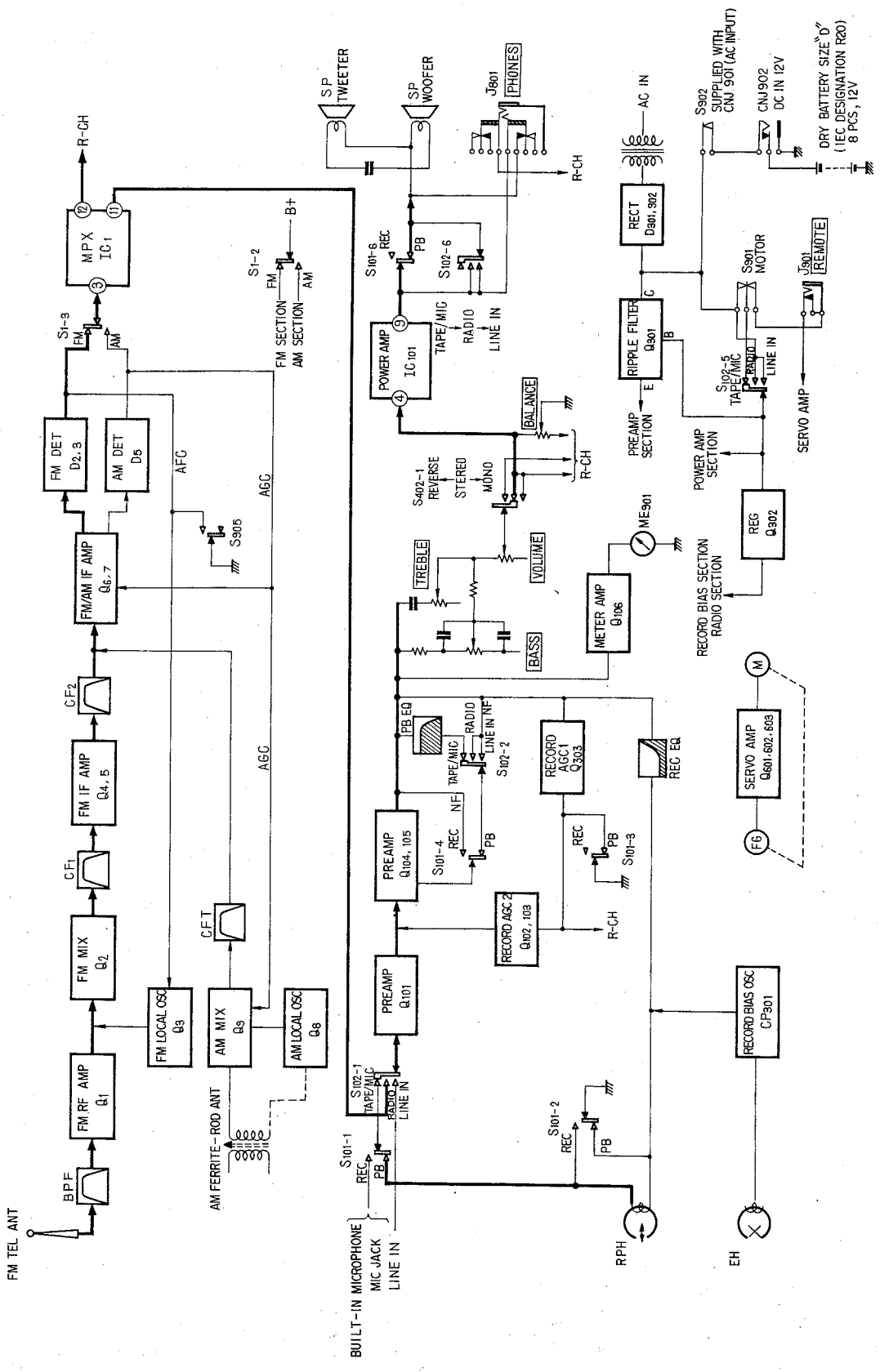
SONY® CF-570
STEREO CASSETTE-CORDER 2 BANDS

FREQUENCY RANGE:
FM 87.5 – 108 MHz
AM 530 – 1605 kHz
AC: 120 V 60 Hz 12 W
DC: 12 V FLASHLIGHT BATT
SIZE D x 8 OR EQUIV

MADE IN JAPAN

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

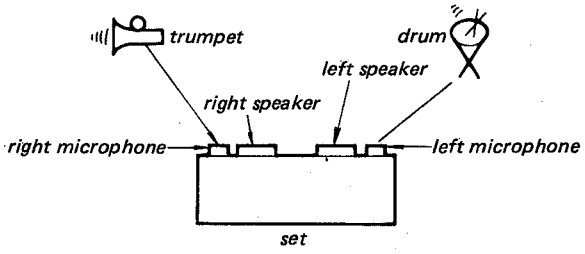


1-2. REVERSE POSITION OF MODE SWITCH

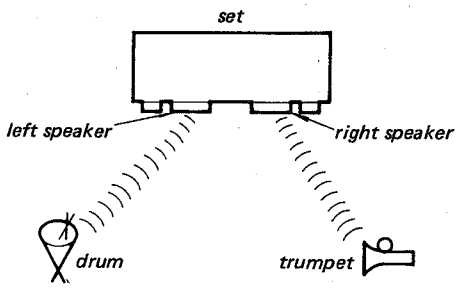
The MODE switch of CF-570 has the MONO, STEREO and REVERSE positions. The left and right sounds are reversely heard in the REVERSE position. And this set has two microphones at the both sides of front case. The sound which is recorded from the left microphone is played back from the left speaker, and the sound from the right microphone is played back from the right speaker.

Thus, when a recording is made with the recorder facing the sound sources as shown right, the playback sound of the left source is heard from the right speaker and the sound of right source is heard from the left speaker. So the playback sound is reversely heard. But setting the MODE switch to REVERSE position, the playback sound from the left and right speakers will be reversed and duplicate the original position correctly.

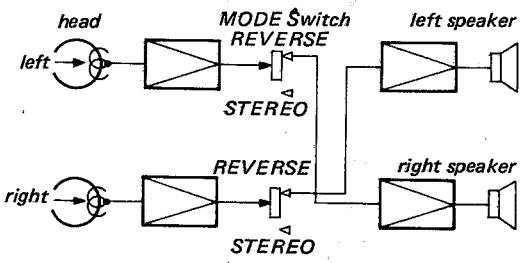
Stereo recording



Stereo playback (MODE switch: STEREO position)



Playback in REVERSE position



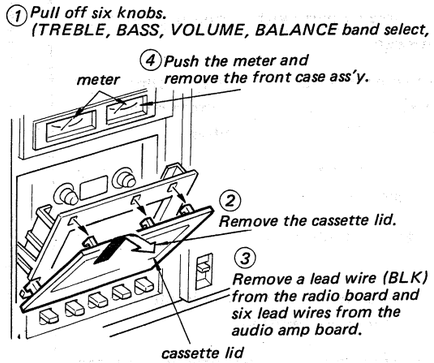
SECTION 2
DISASSEMBLY

2-1. REMOVAL

Rear Case Removal

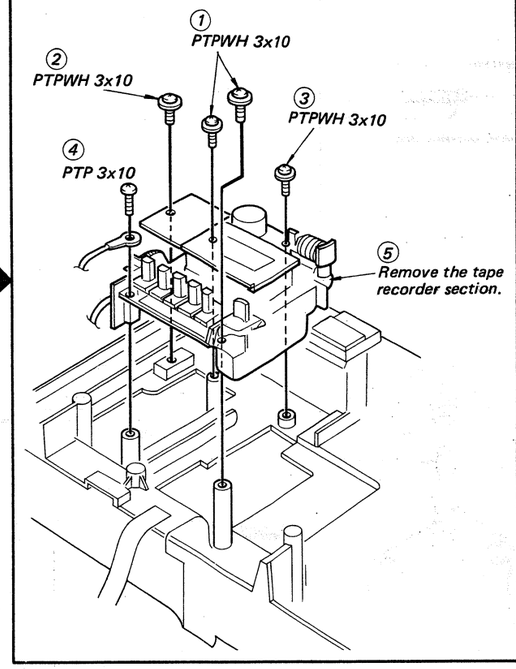
- *Remove eight screws on the rear case.*

Front Case Ass'y Removal


① Pull off six knobs. (TREBLE, BASS, VOLUME, BALANCE band select, TUNING)
④ Push the meter and remove the front case ass'y.
meter
② Remove the cassette lid.
③ Remove a lead wire (BLK) from the radio board and six lead wires from the audio amp board.
cassette lid

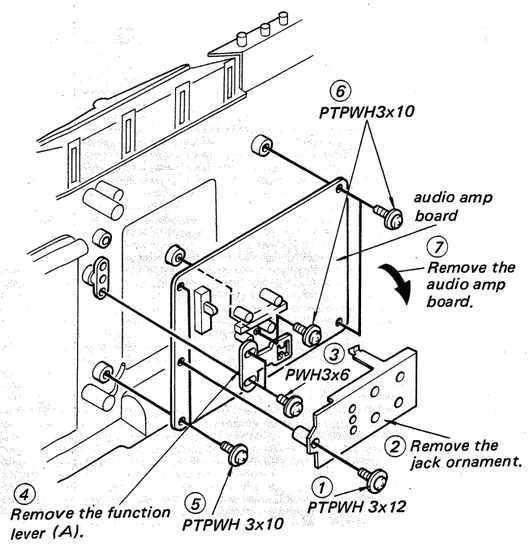
Dial Cord Stringing
See page 7.

Tape Recorder Section Removal

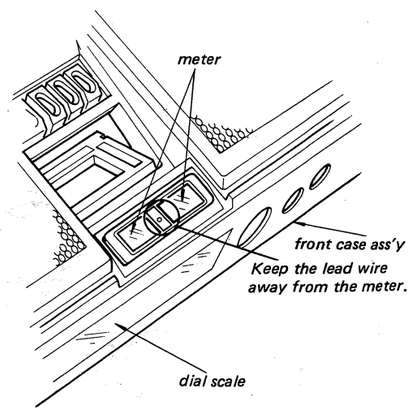


Motor, flywheel and rubber belt can be removed.

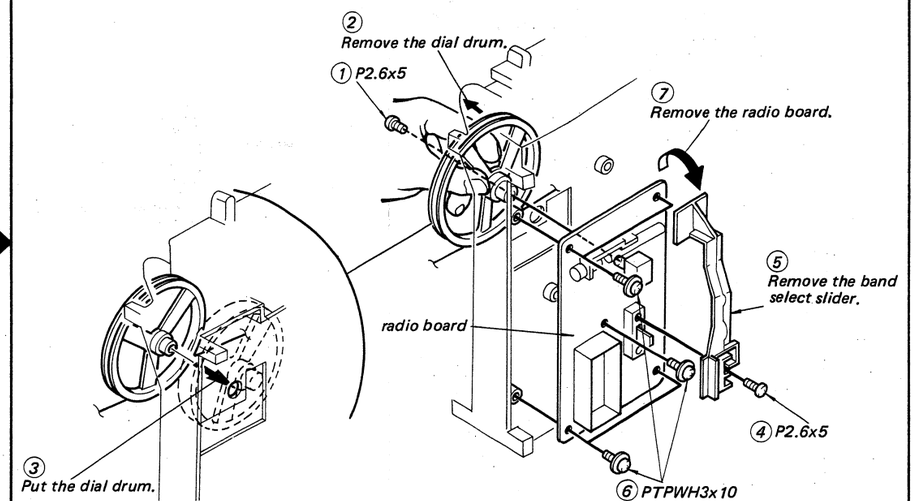
Audio Amp Board Removal



Notice of Front Case Ass'y Installation

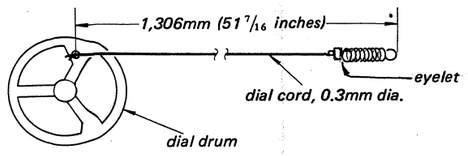


Radio Board Removal

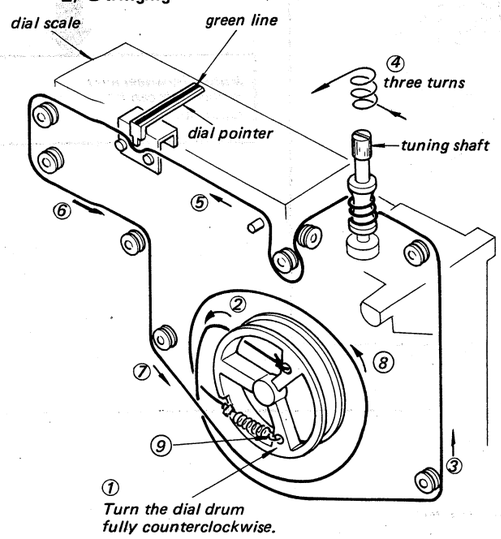


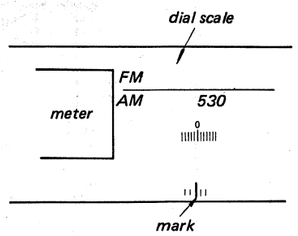
2-2. DIAL CORD STRINGING

1) Preparation



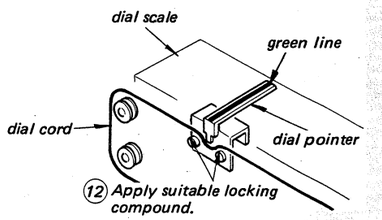
2) Stringing





⑩ Turn the tuning shaft fully counterclockwise.

⑪ Set the green line of dial pointer at the mark on the dial scale.



SECTION 3
ADJUSTMENTS

3-1. TAPE CORDER SECTION MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply a suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Forward:

Torque meter	Meter reading
CQ-101A CQ-102A CQ-103A	22.5–55 g·cm (0.32–0.76 oz·inch)

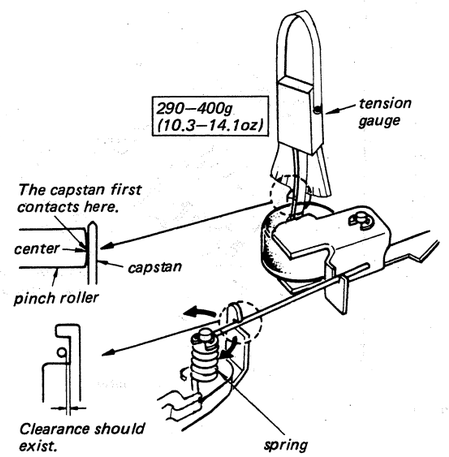
Fast Forward, Rewind:

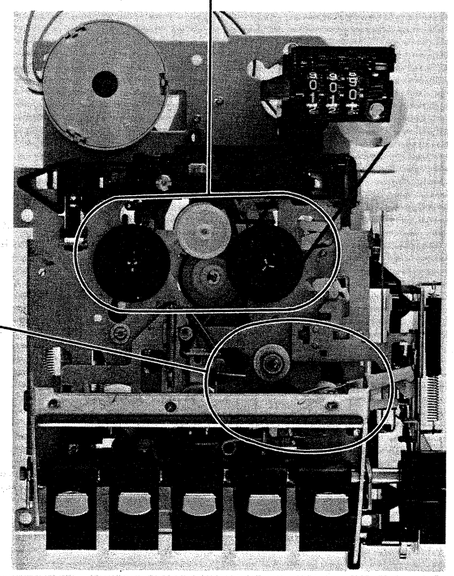
Torque meter	Meter reading
CQ-201A	55–100 g·cm (0.76–1.39 oz·inch)

Pinch Roller Pressure Adjustment

– playback mode –

1. Push the tension gauge.
2. Slowly return the pinch roller and read the tension gauge just when the pinch roller starts to rotate.
3. If necessary, bend or replace the spring.

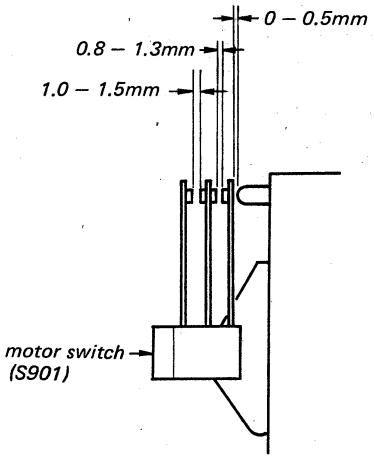


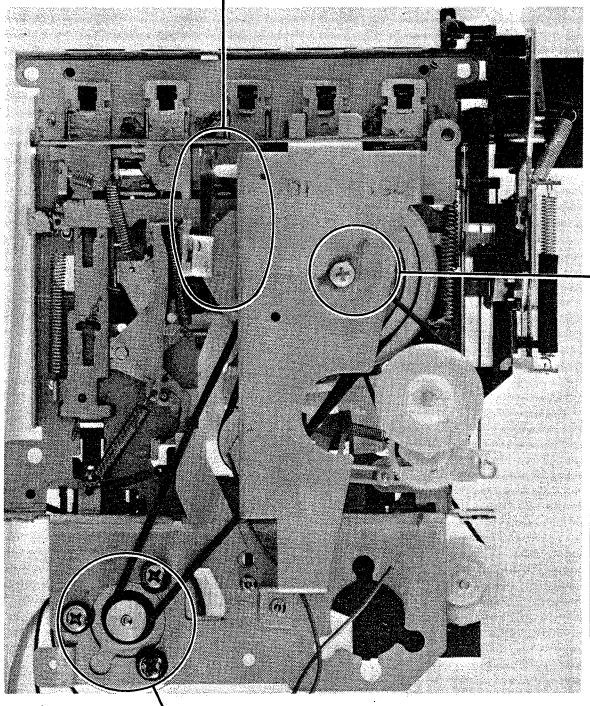


Motor Switch (S901) Position Adjustment

– stop mode –

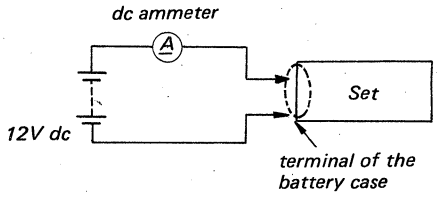
1. Bend the switch leaf so that the specified clearance is obtained between the switch lever and switch leaf.
2. After the adjustment, confirm that the motor switch turns ON in playback, fast forward and rewind modes.





Flywheel Thrust Play Adjustment

Procedure:



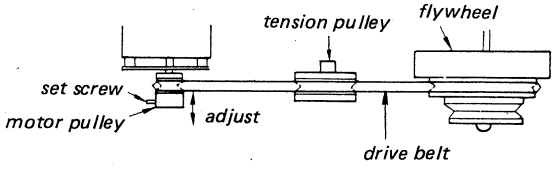
1. Place the set horizontally and reel-spindle-side-down.
2. Loosen the screw by turning it counterclockwise.
3. Carefully tighten the screw until current suddenly increases.
   Then, loosen the screw ¼ turn.

Motor Pulley Height Adjustment

After replacing the motor pulley or the flywheel, this adjustment should be performed.

Procedure:

1. Keep the set horizontal.
2. Adjust the motor pulley height so that the drive belt is straight without twist.



3-2. TAPE RECORDER SECTION ELECTRICAL ADJUSTMENTS

Note: The adjustments should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

B+ Voltage Adjustment

Setting:

Power supply voltage: 12V dc
band select switch: FM
function switch: RADIO
VOLUME control: minimum

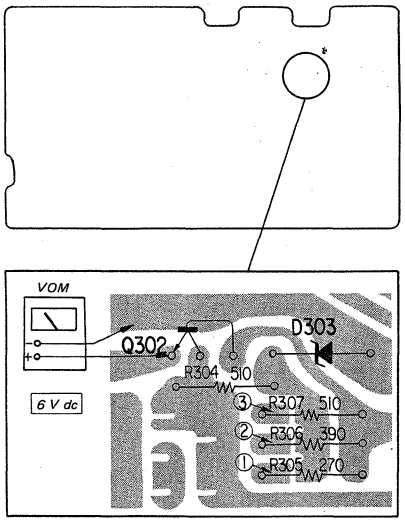
Procedure:

Adjust the pattern connection for 6V VOM reading.

Adjustment Location and Specification:

Pattern connection	B+Voltage
①	high ↕ low
②	
③	

– audio amp board –



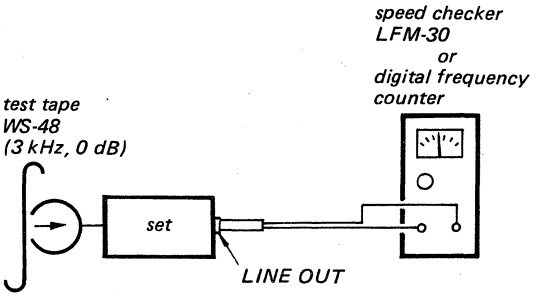
Tape Speed Adjustment

Setting:

function switch: TAPE/MIC

Procedure:

Mode: playback



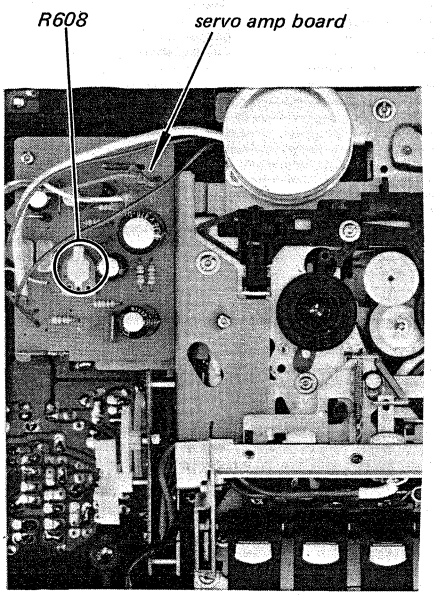
Adjust R608 to obtain the specified values below.

Specification:

Speed checker	Digital frequency counter
–2.5–+3%	2,925–3,090 Hz

Frequency difference between beginning and end of tape should be within 1% (30 Hz).

Adjustment Location:



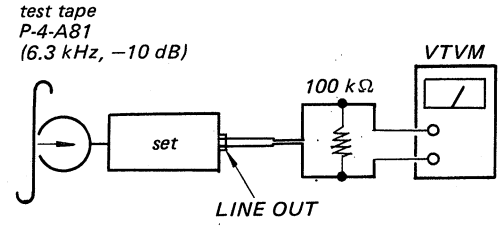
Record/playback Head Azimuth Adjustment

Setting:

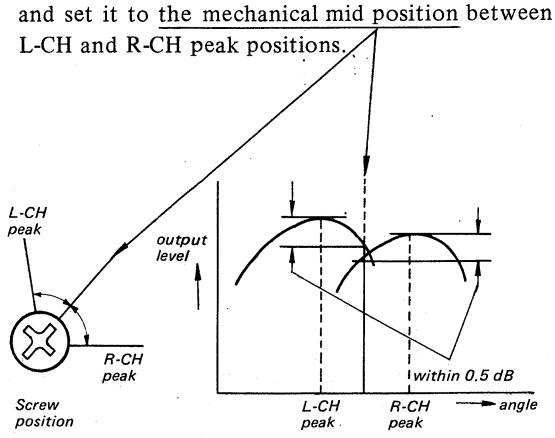
function switch: TAPE/MIC
MODE switch: STEREO

Procedure:

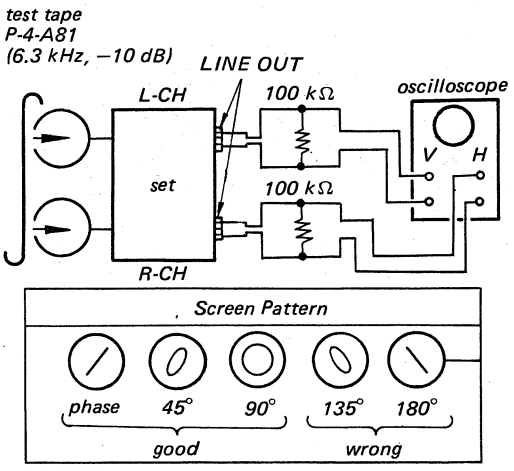
1. Mode: playback



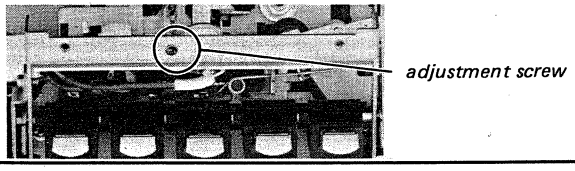
2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position between L-CH and R-CH peak positions.



3. Mode: playback



Adjustment Location:



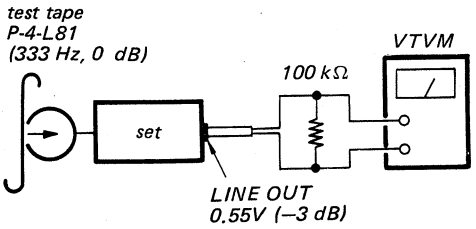
Playback Level Adjustment

Setting:

function switch: TAPE/MIC
MODE switch: STEREO

Procedure:

1. Mode: playback



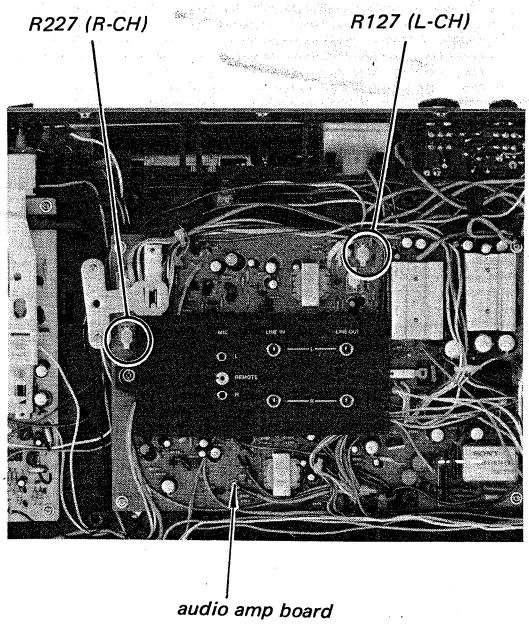
Adjust R127 (L-CH) and R227 (R-CH) to obtain 0.55V (−3dB) VTVM reading.

2. Assure that the LINE OUT level does not change when the mode is changed from playback to stop several times.

Specification:

LINE OUT level: 0.44–0.69V
(-1 – -5dB)
Level difference between channels:
less than 1.0dB

Adjustment Location:



Level Meter Calibration

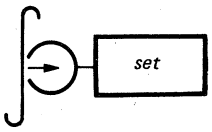
Setting:

Power supply voltage:	12V dc
function switch:	TAPE/MIC
MODE switch:	STEREO

Procedure:

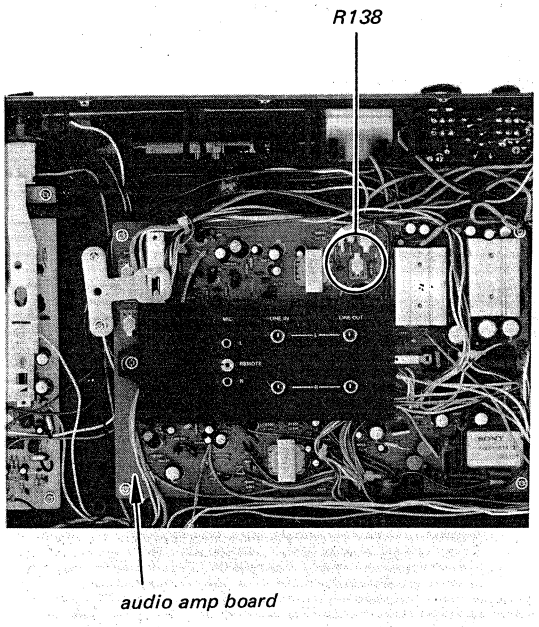
1. Mode: playback

test tape
P-4-L81
(333Hz, 0dB)



Adjust R138 so that level meter indication of L-CH becomes the same as R-CH.

Adjustment Location:



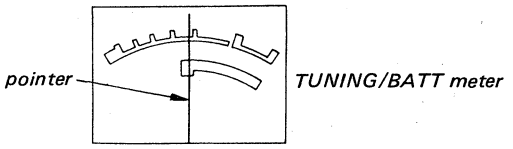
Battery Meter Calibration

Setting:

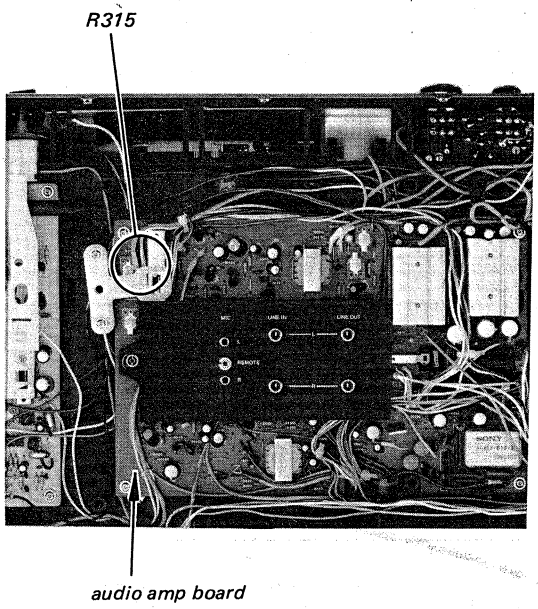
Power supply voltage:	8.8V dc
function switch:	TAPE/MIC
VOLUME control:	minimum

Procedure:

1. Mode: playback with no cassette loaded
2. Adjust R315 for specified pointer position on the TUNING/BATT meter as shown.



Adjustment Location:



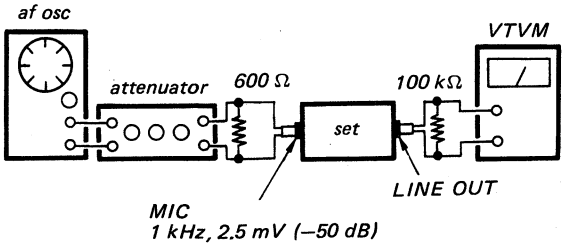
AGC Balance Adjustment

Setting:

function switch: TAPE/MIC
MODE switch: STEREO

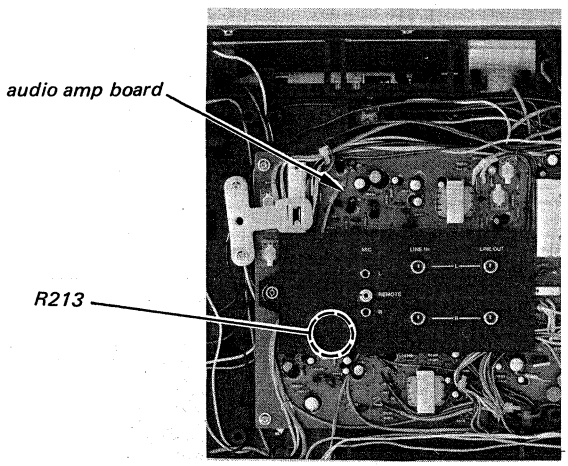
Procedure:

1. Mode: record



2. Adjust R213 so that LINE OUT of R-CH becomes the same level as L-CH.

Adjustment Location:



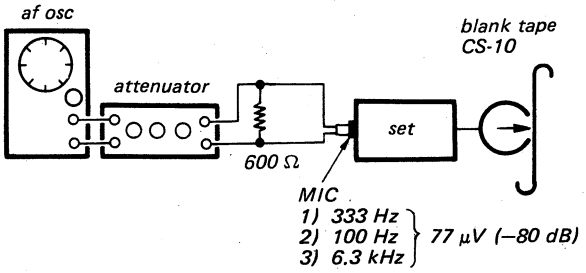
Record Bias Adjustment

Setting:

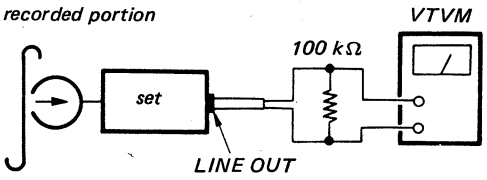
function switch: TAPE/MIC
TAPE SELECT switch: NORMAL

Procedure:

1. Mode: record



2. Mode: playback

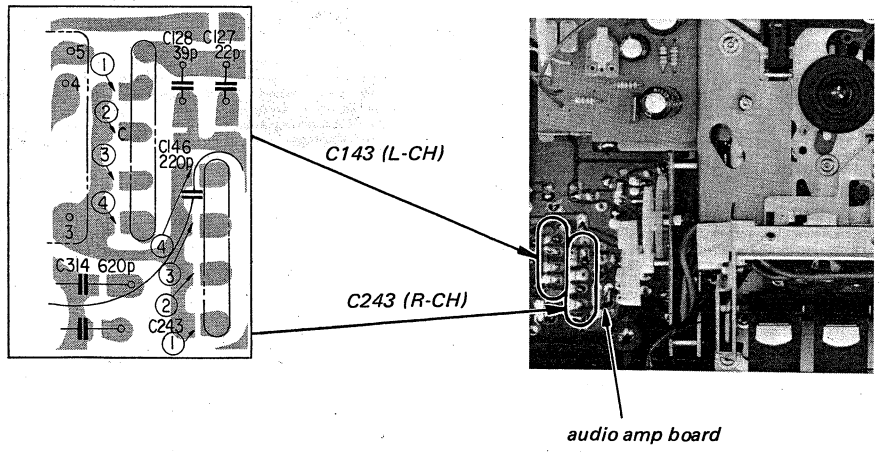


Specification:

100 Hz and 6.3 kHz level difference from 333 Hz:
0 dB ± 1.5 dB

Adjustment Location:

Pattern connection	6.3 kHz VTVM reading
①	down ↑
②	
③	
④	↓ up



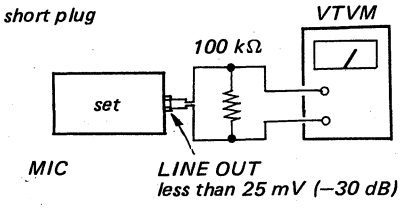
Bias Trap Adjustment

Setting:

function switch: LINE IN
AFC/ISS switch: OFF

Procedure:

Mode: record (no signal input)

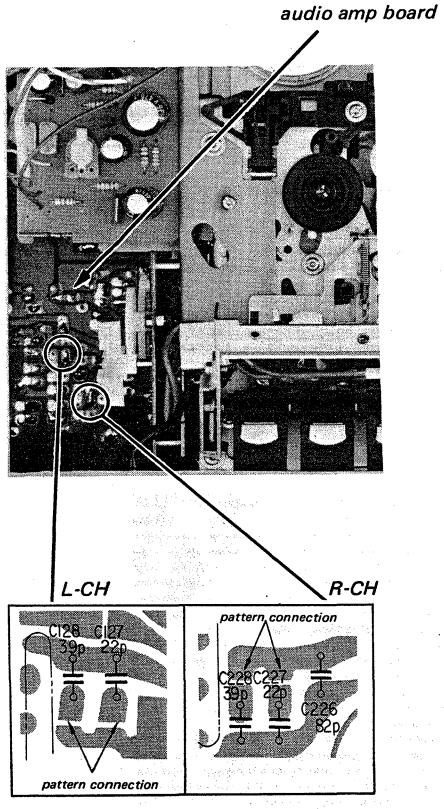


Adjust pattern connection for the specified reading on VTVM.

Specification:

LINE OUT: less than 25 mV (–30 dB)

Adjustment Location:



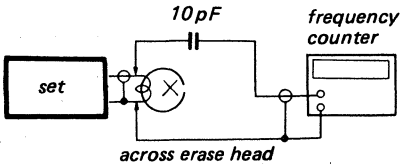
Bias Osc Frequency Adjustment

Setting:

function switch: TAPE/MIC
AFC/ISS switch: OFF

Procedure:

Mode: record (no signal input)



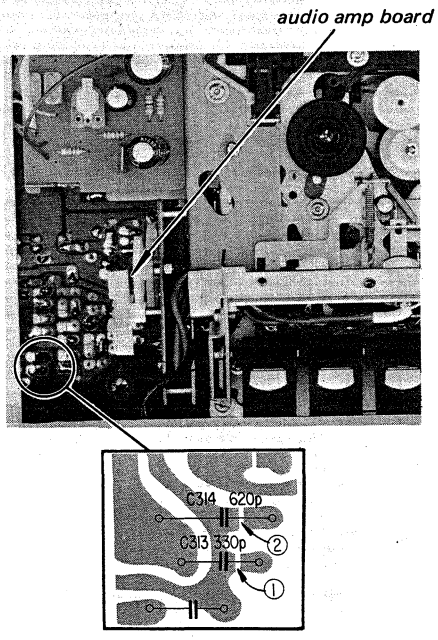
Adjust the pattern connection for the specified reading on frequency counter.

Specification:

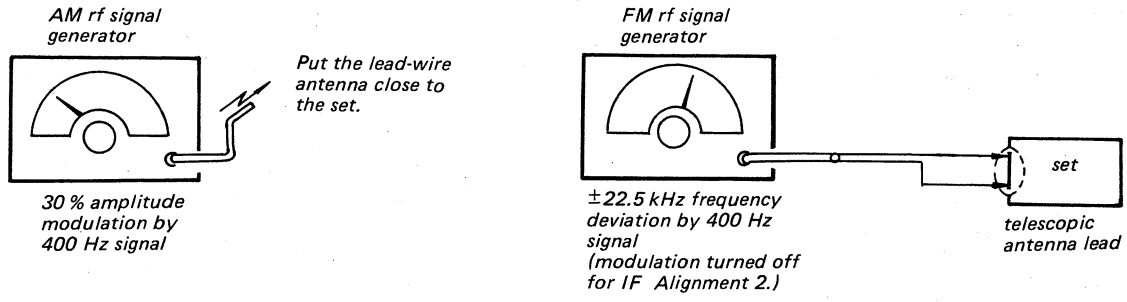
frequency counter: 81.9 ~ 87 kHz

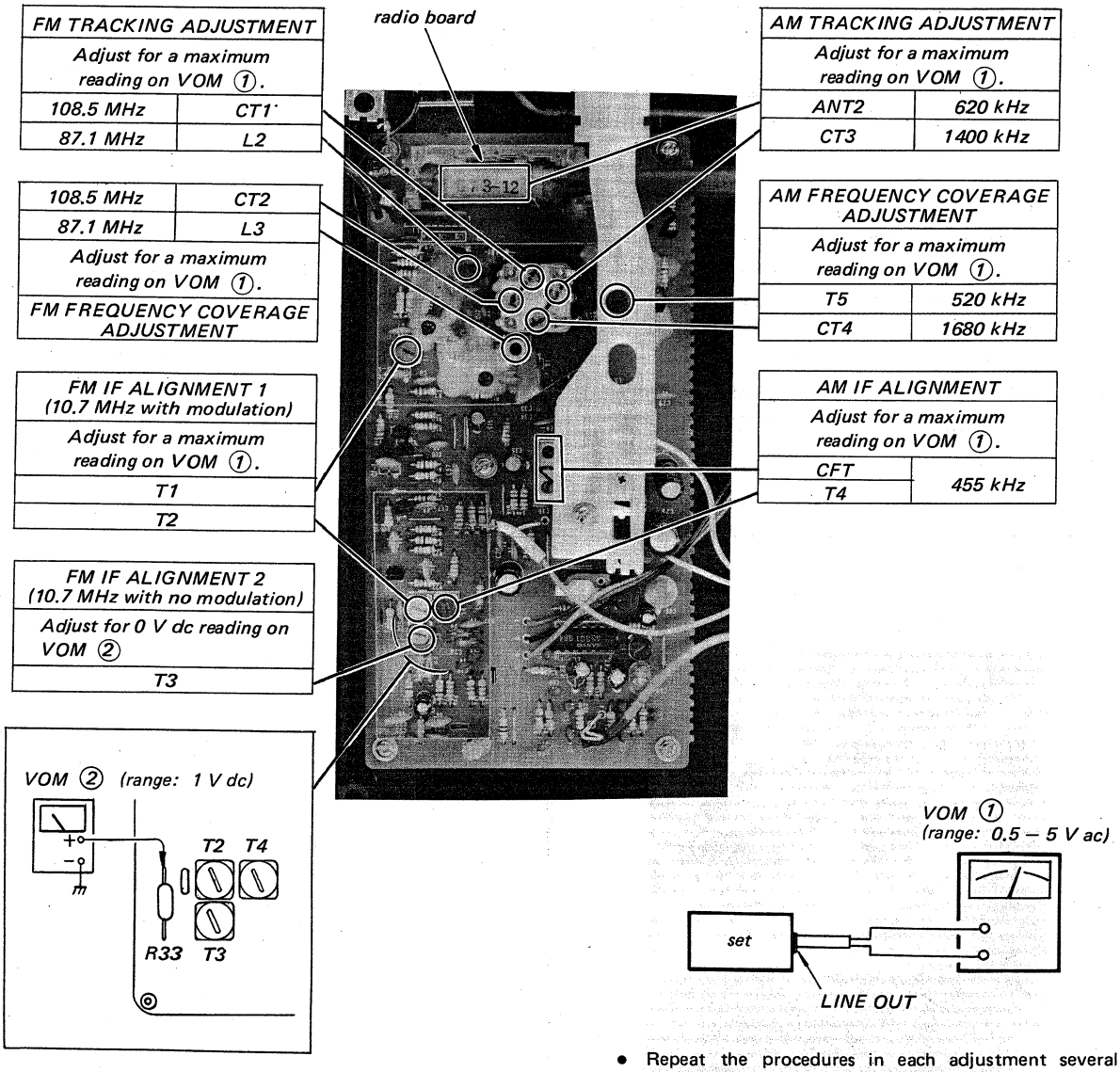
Adjustment Location:

Pattern connection	Bias Osc frequency
Open	high
①	↕
②	↕
① and ②	low



3-3. RADIO SECTION


AM rf signal generator
Put the lead-wire antenna close to the set.
30 % amplitude modulation by 400 Hz signal
FM rf signal generator
set
±22.5 kHz frequency deviation by 400 Hz signal (modulation turned off for IF Alignment 2.)
telescopic antenna lead


radio board
FM TRACKING ADJUSTMENT
Adjust for a maximum reading on VOM ①.
108.5 MHz CT1
87.1 MHz L2
108.5 MHz CT2
87.1 MHz L3
Adjust for a maximum reading on VOM ①.
FM FREQUENCY COVERAGE ADJUSTMENT
FM IF ALIGNMENT 1 (10.7 MHz with modulation)
Adjust for a maximum reading on VOM ①.
T1
T2
FM IF ALIGNMENT 2 (10.7 MHz with no modulation)
Adjust for 0 V dc reading on VOM ②
T3
VOM ② (range: 1 V dc)
T2 T4
R33 T3
AM TRACKING ADJUSTMENT
Adjust for a maximum reading on VOM ①.
ANT2 620 kHz
CT3 1400 kHz
AM FREQUENCY COVERAGE ADJUSTMENT
Adjust for a maximum reading on VOM ①.
T5 520 kHz
CT4 1680 kHz
AM IF ALIGNMENT
Adjust for a maximum reading on VOM ①.
CFT
T4
455 kHz
VOM ① (range: 0.5 – 5 V ac)
set
LINE OUT

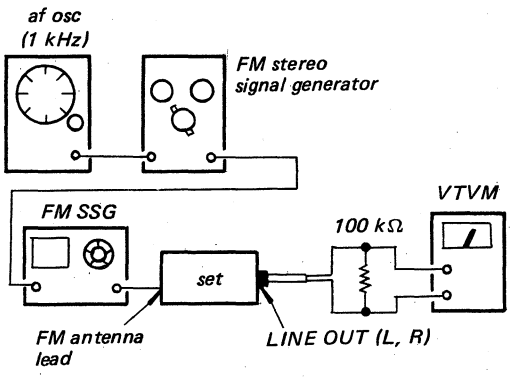
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM Stereo Separation Adjustment

Setting:

function switch: RADIO
band select switch: FM
MODE switch: STEREO

Procedure:



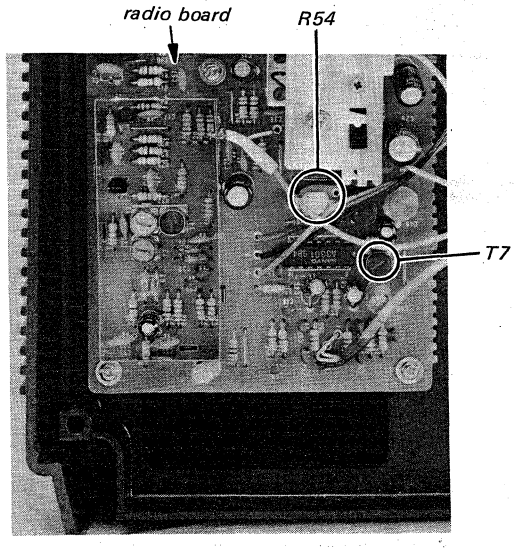
Carrier frequency: 98 MHz
Modulation frequency: 1 kHz
Output level: 1,000μV (60dB)

1. With L-CH (or R-CH) input signal, adjust T7 for maximum output level at LINE OUT L-CH (or R-CH).
2. With L-CH input signal, adjust R54 for minimum output level at LINE OUT R-CH.

Specification:

Level difference from step 1 should be more than 28 dB. If not, repeat the above steps.

Adjustment Location:



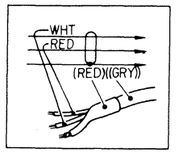
SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM

– Servo Amp, Radio and Audio Amp Boards –

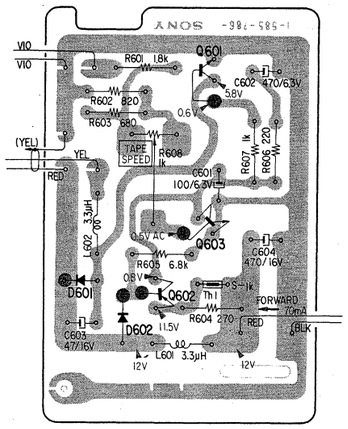
Note:

- Color code of sleeving over the end of the jacket.



- ■ : part mounted on the conductor side.
- : indicates side identified with part number.
- : B+ pattern
- Readings are taken under no-signal conditions with a VOM (20kΩ/V).
  ( ) : RECORD
  < > : AM
  no mark : FM or PLAYBACK

【SERVO AMP BOARD】(CONDUCTOR SIDE)



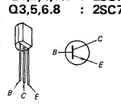
D・Q	D601	D602	Q602	Q601 Q603

Replacement Semiconductors
For replacement, use semiconductors except in ( ).

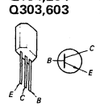
IC1: LA3301

IC101,201: HA1306W

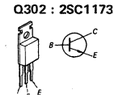
Q1,2,4,7.9 : 2SC710
Q3,5,6.8 : 2SC710



Q101,201 : 2SC632A (2SC631A)
Q102,103,105 :
Q106,202,203 : } 2SC634A (2SC633A)
Q205,206,301 :
Q104,204 : 2SC632A (2SC631)
Q303,603 : 2SC634A (2SC633)

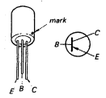


Q302 : 2SC1173



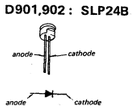
Q601 : 2SC1761

Q602 . 2SB324 (2SA475)



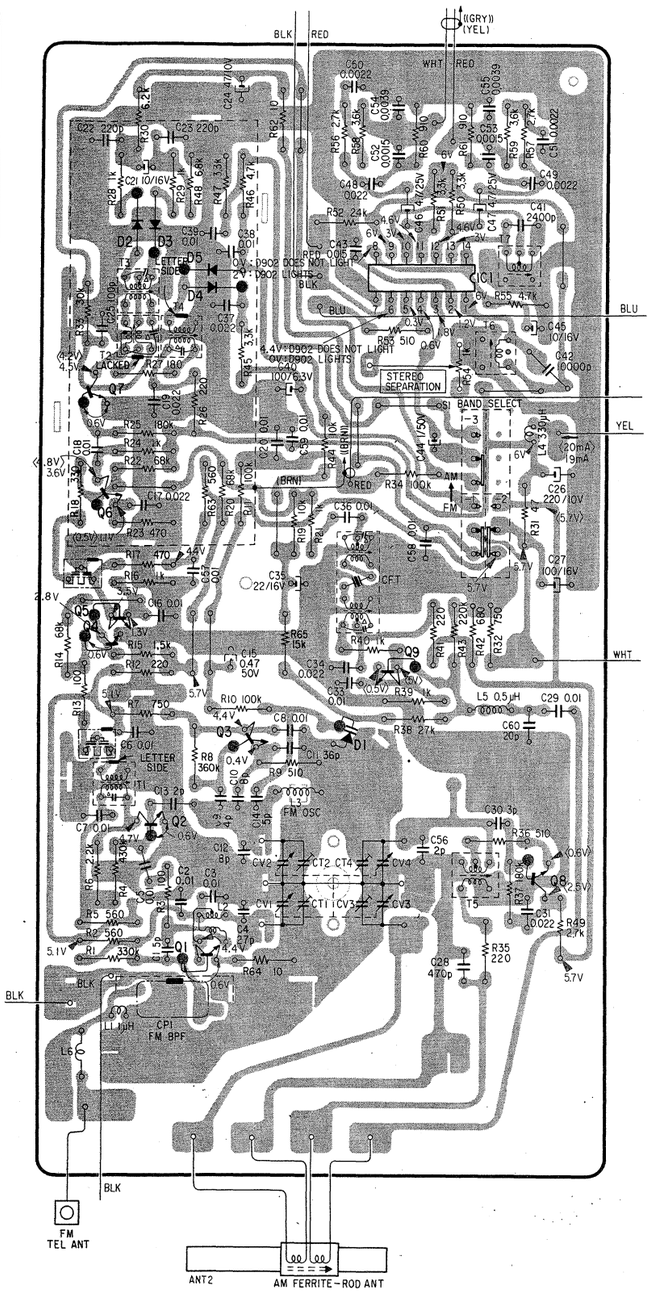
D1 : 1S2687S-1 (1S2687)
D2,3 : 1T261
D4,5 : 1T22A
D101,201,602 : 1S1555 (1T40)
D102,103 : } 1T22A (1T22A)
D202,203,304 :
D301,302 : 10E2
D303 : RD7.5E-C (RD7.5E)
D601 : 10E2 (10E1)

D901,902 : SLP24B

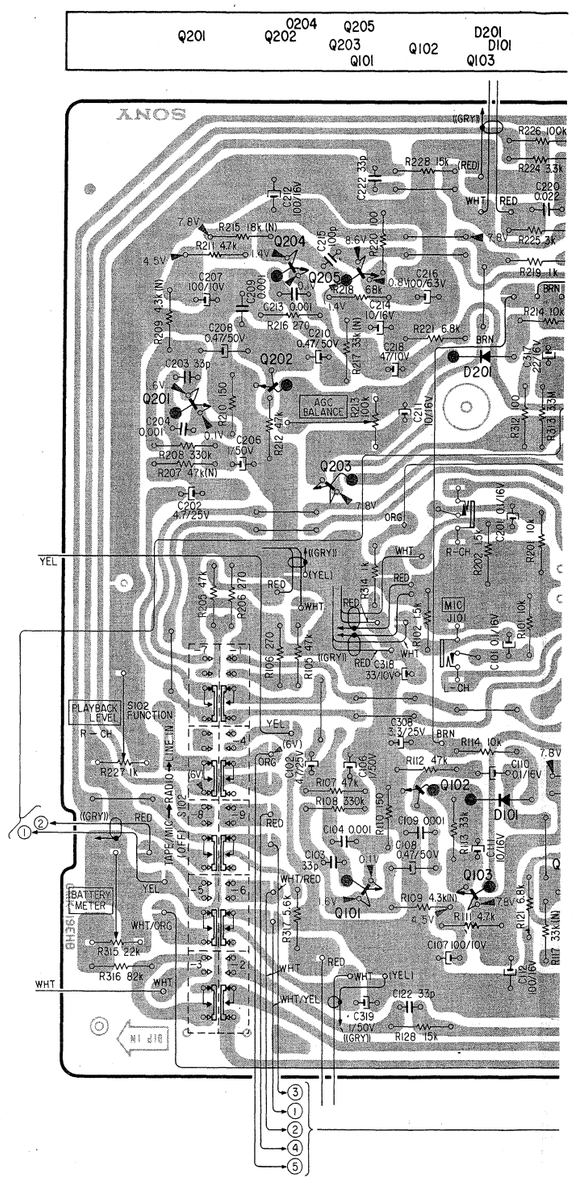


【RADIO BOARD】(CONDUCTOR SIDE)

IC,Q	D
	2,3
IC 1	5
	4
7	
6	
5	
4	
9	
3	1
2	
8	
1	



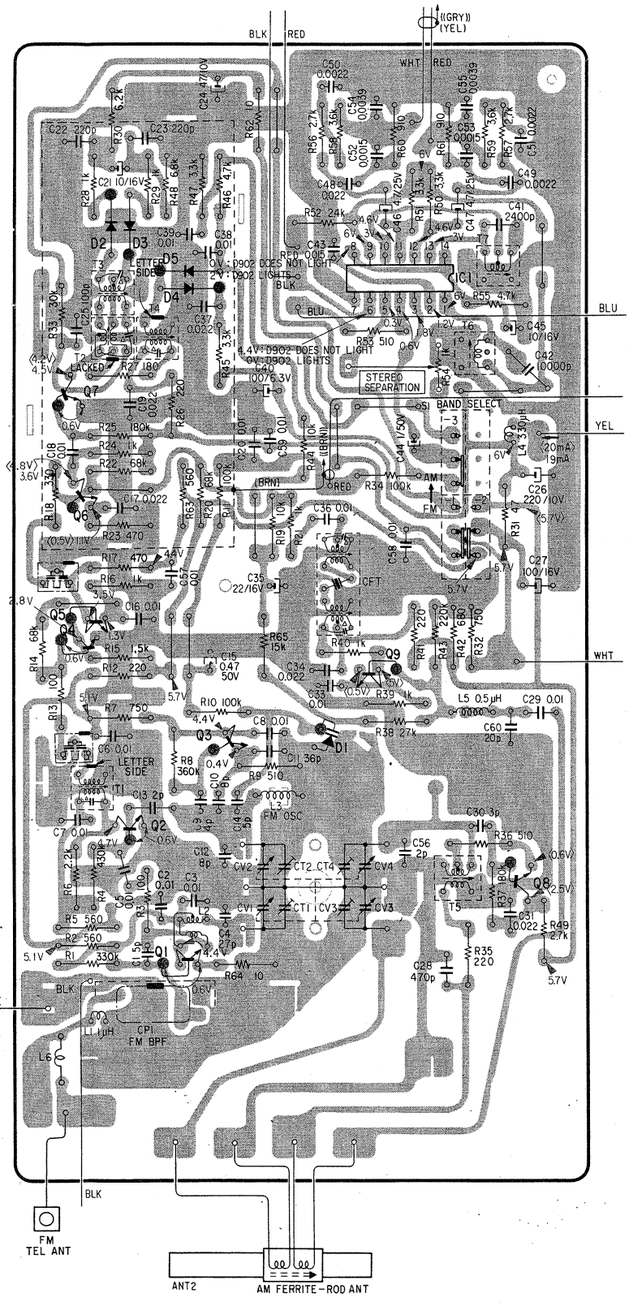
【AUDIO AMP BOARD】(CONDUCTOR SIDE)


Q201
Q202
Q204
Q205
Q203
Q101
Q102
D201
D101
Q103
ANOS
((GRY))
(YEL)
R226 100k
R224 33k
R228 15k
RED
WHT
RED
R225 3.3k
R219 1k
BRN
R214 10k
D201
R213 33k
R212 47k
R211 47k
R215 18k (N)
Q204
Q205
Q202
Q201
Q203
AGC BALANCE
C207 100/10V
C208 0.47/50V
C209 0.001
C213 0.001
C216 0.8V 100/6.3V
C214 10/16V
C218 47/10V
C210 0.47/50V
C211 0.001
C212 100/16V
C222 330
R216 270
R221 6.8k
R222 1k
R223 1k
R209 1.3k (N)
R208 330k
R207 4.7k (N)
C203 330
C204 0.001
C205 0.001
C206 47/50V
C202 47/25V
R206 47k
R204 1k
R205 270
R203 1k
R202 47k
R201 10k
C201 0.001/16V
C220 0.001
C221 10/16V
R212 47k
R213 33k
R217 22k (N)
R218 47k
C219 0.001
R220 100k
R210 10k
C215 100p
C217 0.001
R227 1k
PLAYBACK LEVEL
R-CH
S102 FUNCTION
LINE IN
RADIO
OFF
PHONO
BATTERY METER
BH3G
WHT/ORG
R315 22k
R316 82k
WHT
YEL
ORG
WHT/RED
WHT/YEL
R-CH
MIC
L-CH
R204 1k
R205 270
R206 47k
R207 1k
R208 10k
C306 3/25V
C307 0.01/16V
C308 3/25V
R114 10k
R112 47k
C110 0.01/16V
C106 0.001
C105 0.001/50V
R107 47k
R108 330k
C104 0.001
C109 0.001
C108 0.47/50V
C103 33p
C111 0.1
R109 4.3k(N)
R111 47k
Q102
D101
Q103
Q101
C107 100/10V
R121 4.7k
R118 33k(N)
C122 33p
C319 1/50V
R128 15k
7.8V
6V
4.5V
1.4V
0.8V
0.1V
7.6V
8.6V
7.8V
6.8V
4.5V
1.4V
0.8V
0.1

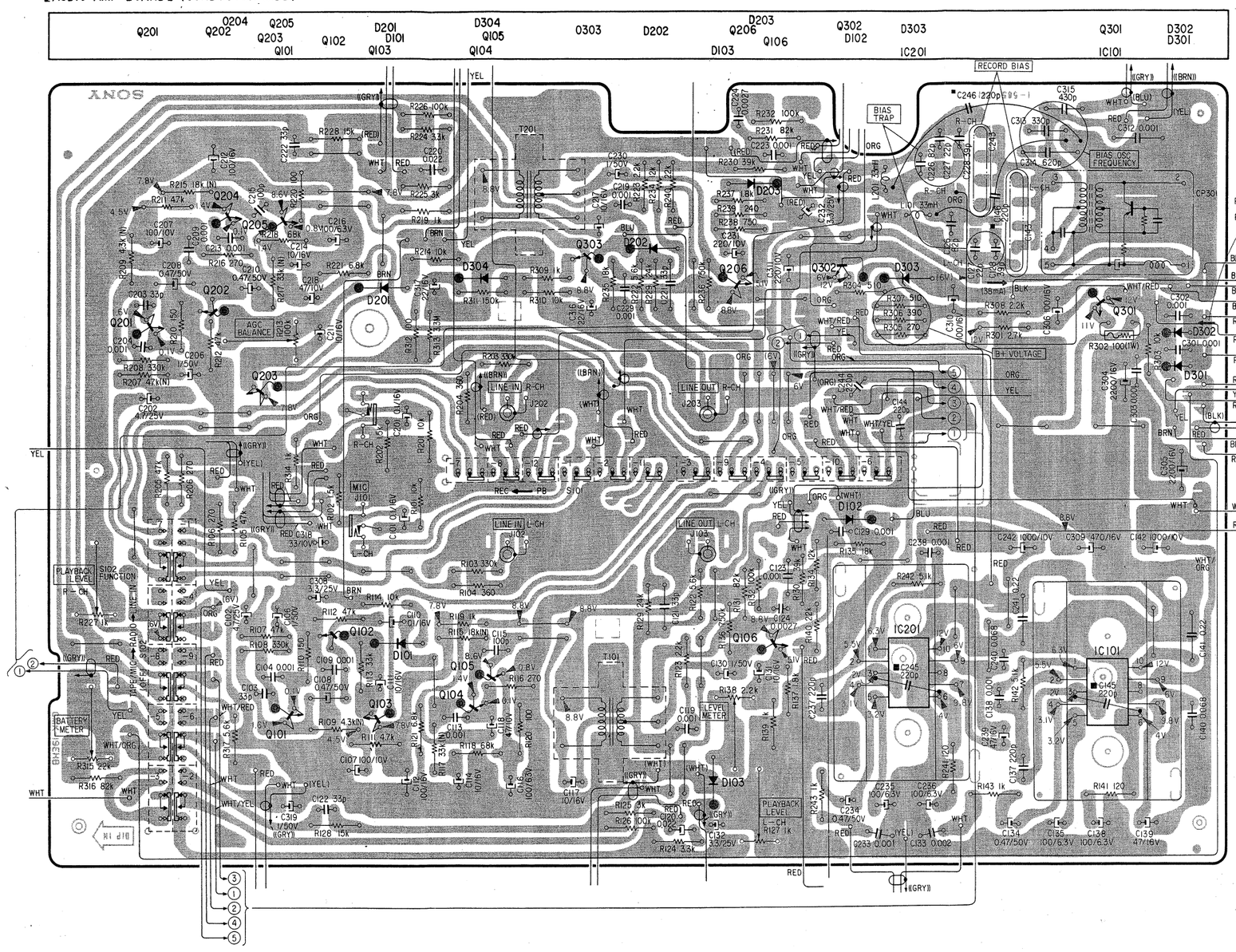
CF-570

E F G H I J K L

RD】(CONDUCTOR SIDE)



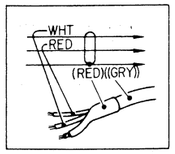
【AUDIO AMP BOARD】(CONDUCTOR SIDE)



4-2. MOUNTING DIAGRAM

Note:

- Color code of sleeving over the end of the jacket.



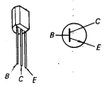
- ■ : part mounted on the conductor side.
- : indicates side identified with part number.
- : B+ pattern
- Signal Path
  —— ——: FM
  ——·——: L-CH } audio playback
  ——··——: R-CH }
- Ⓕ : fusible resistor.
- Readings are taken under no-signal conditions with a VOM (20kΩ/V).
  ( ) : RECORD
  < > : AM
  no mark : FM or PLAYBACK

Replacement Semiconductors
For replacement, use semiconductors except in ( ).

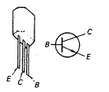
IC1: LA3301

IC101,201: HA1306W

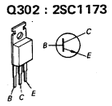
Q1,2,4,7,9 : 2SC710
Q3,5,6,8 : 2SC710



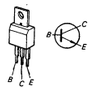
Q101,201 : 2SC632A (2SC631A)
Q102,103,105 : 2SC634A (2SC633A)
Q106,202,203 : 2SC634A (2SC633A)
Q205,206,301 : 2SC634A (2SC633A)
Q104,204 : 2SC632A (2SC631)
Q303,603 : 2SC634A (2SC633)



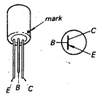
Q302 : 2SC1173



Q601 : 2SC1761

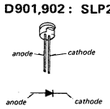


Q602 . 2SB324 (2SA475)



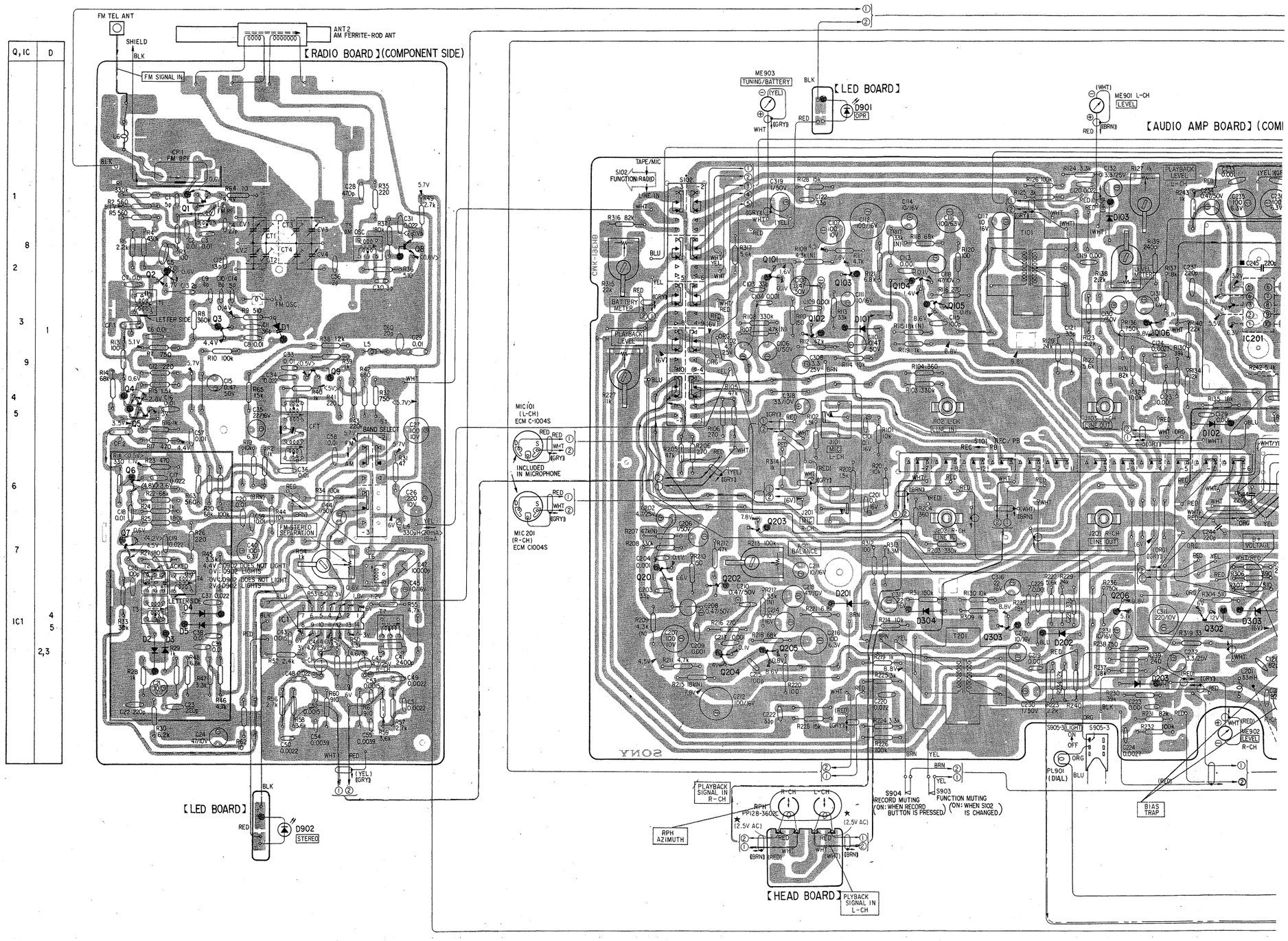
D1 : 1S2687S-1 (1S2687)
D2,3 : 1T261
D4,5 : 1T22A
D101,201,602 : 1S1555 (1T40)
D102,103 : 1T22A (1T22A)
D202,203,304 : 1T22A (1T22A)
D301,302 : 10E2
D303 : RD7.5E-C (RD7.5E)
D601 : 10E2 (10E1)

D901,902 : SLP24B



Q, IC	D
1	
2	8
3	1
4	9
5	
6	
7	
IC1	4
	5
	2,3

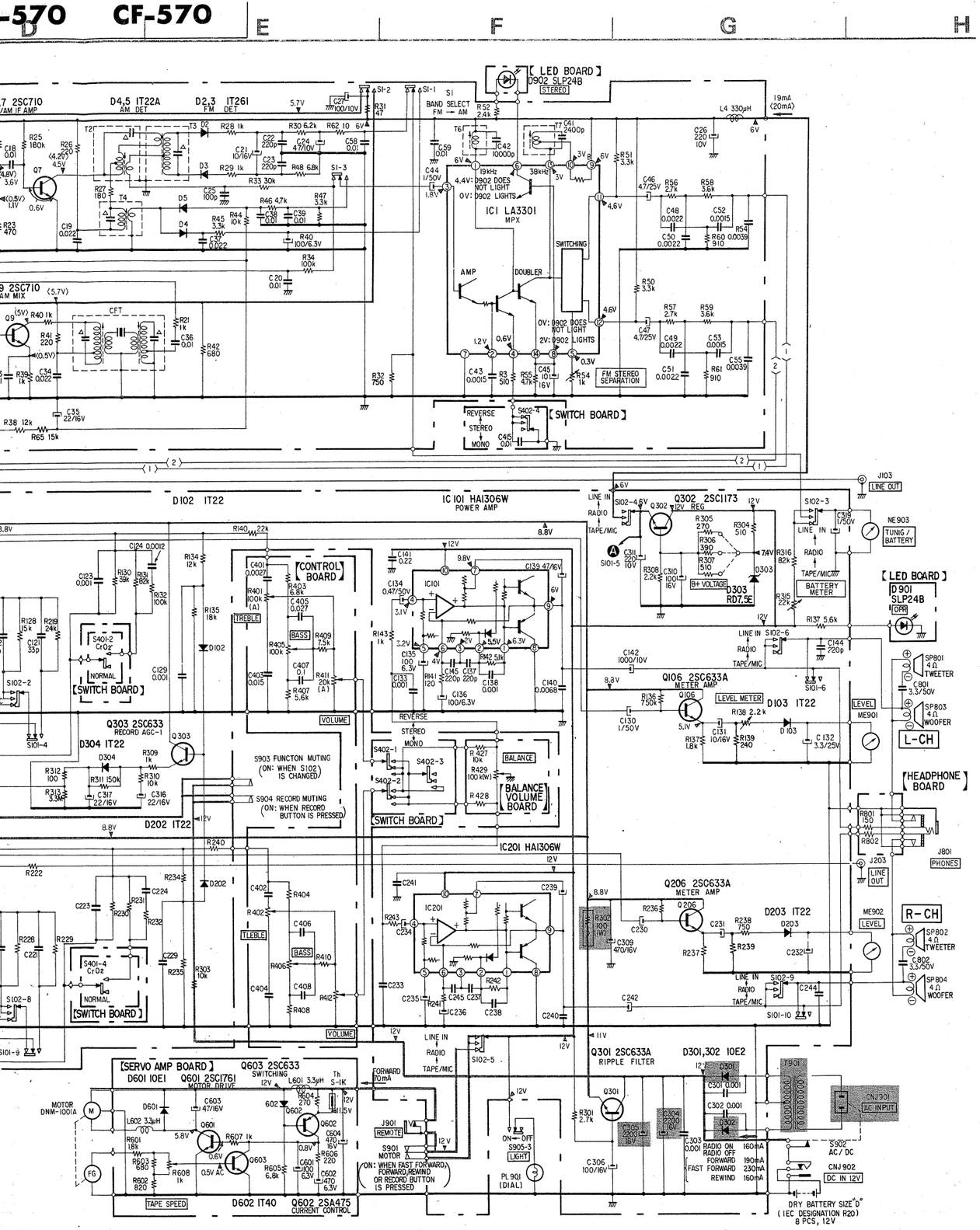
Q, IC	D
Q 201	
IC 202,204	
203 205	101
102	201
103	101
104	304
105	
303	
202	
206	103
106	203
302	102
IC201	303



E F G H I J K L

| | | |

4-3. SCHEMATIC DIAGRAM



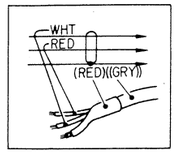
Note:

- Components for right channel have the same values as for left channel. Reference numbers are coded from 200.
- All capacitors are in μF unless otherwise noted. pF = μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000 kΩ
- ▭ : fusible resistor.
- (N) : low-noise capacitor and resistor.
- △ : internal component.
- ▬ : B+ bus.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- ⏚ : chassis ground.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (20kΩ/V).
  ( ) : RECORD
  < > : AM
  no mark : FM or PLAYBACK
- AC voltage readings indicated by * in the bias oscillator circuit are taken with a VTVM.
- Transistor base-emitter voltages are measured on the 2.5V range.
- Total current is measured with no cassette installed.
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	BAND SELECT	FM
S101	REC/PB	PB
S102	FUNCTION	TAPE/MIC
S401	TAPE SELECT	NORMAL
S402	MODE	STEREO
S901	MOTOR	OFF
S902	AC/DC	DC
S903	FUNCTION MUTING	OFF
S904	RECORD MUTING	OFF
S905-1,2	AFC/ISS	OFF
S905-3,4	LIGHT	OFF

Note:

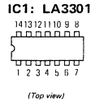
- Color code of sleeving over the end of the jacket.



- ■ : part mounted on the conductor side.
- ▯— : indicates side identified with part number.
- ▒ : B+ pattern
- Signal Path
  —— : FM
  —·— : L-CH } audio playback
  —··— : R-CH }
- Ⓕ : fusible resistor.
- Readings are taken under no-signal conditions with a VOM (20kΩ/V).
  ( ) : RECORD
  < > : AM
  no mark : FM or PLAYBACK

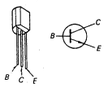
Replacement Semiconductors
For replacement, use semiconductors except in ( ).

IC1: LA3301

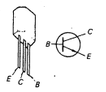


IC101,201: HA1306W

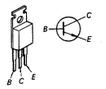
Q1,2,4,7.9 : 2SC710
Q3,5,6.8 : 2SC710



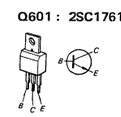
Q101,201 : 2SC632A (2SC631A)
Q102,103,105 :
Q106,202,203 : } 2SC634A (2SC633A)
Q205,206,301 :
Q104,204 : 2SC632A (2SC631)
Q303,603 : 2SC634A (2SC633)



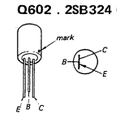
Q302 : 2SC1173



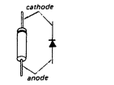
Q601 : 2SC1761



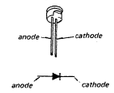
Q602 . 2SB324 (2SA475)



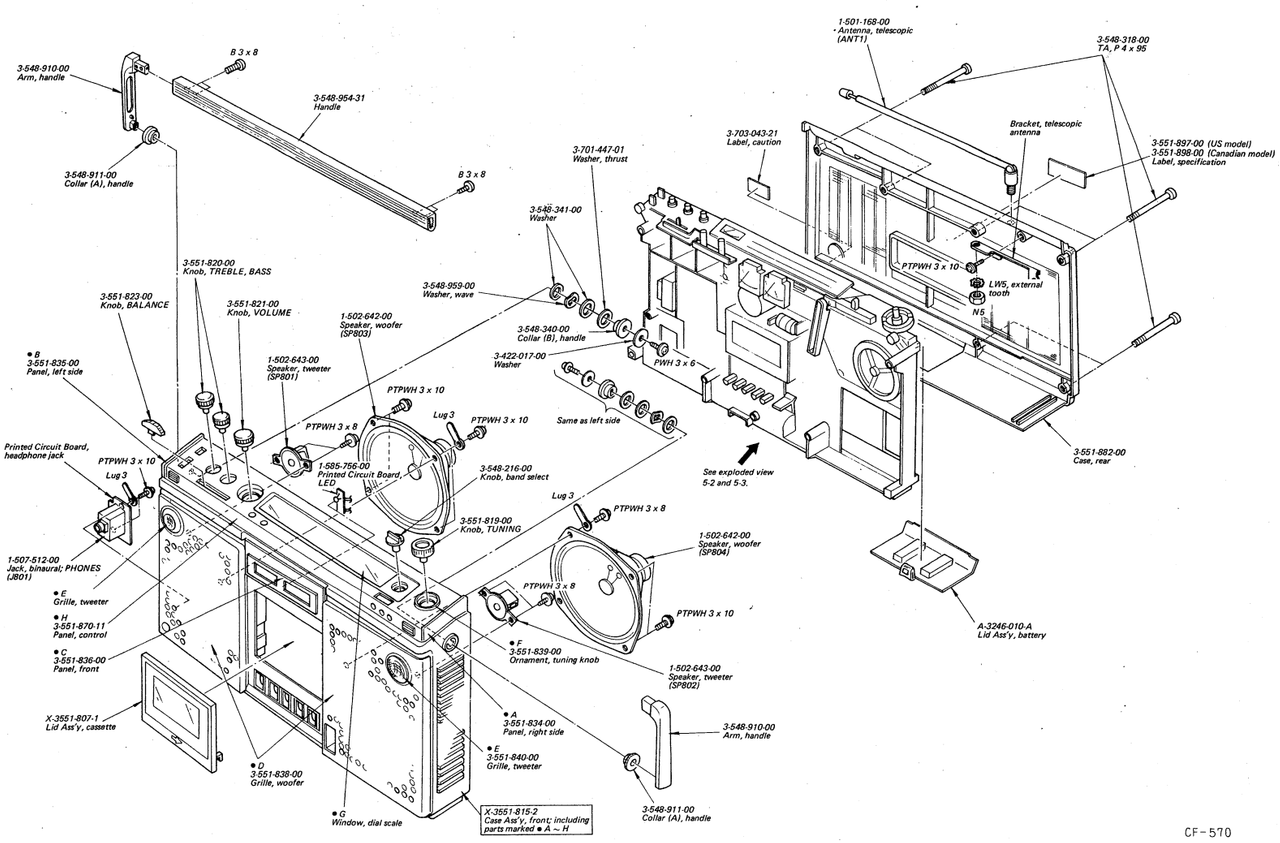
D1 : 1S2687S-1 (1S2687)
D2,3 : 1T261
D4,5 : 1T22A
D101,201,602 : 1S1555 (1T40)
D102,103 : } 1T22A (1T22A)
D202,203,304 : }
D301,302 : 10E2
D303 : RD7.5E-C (RD7.5E)
D601 : 10E2 (10E1)



D901,902: SLP24B



5-1.

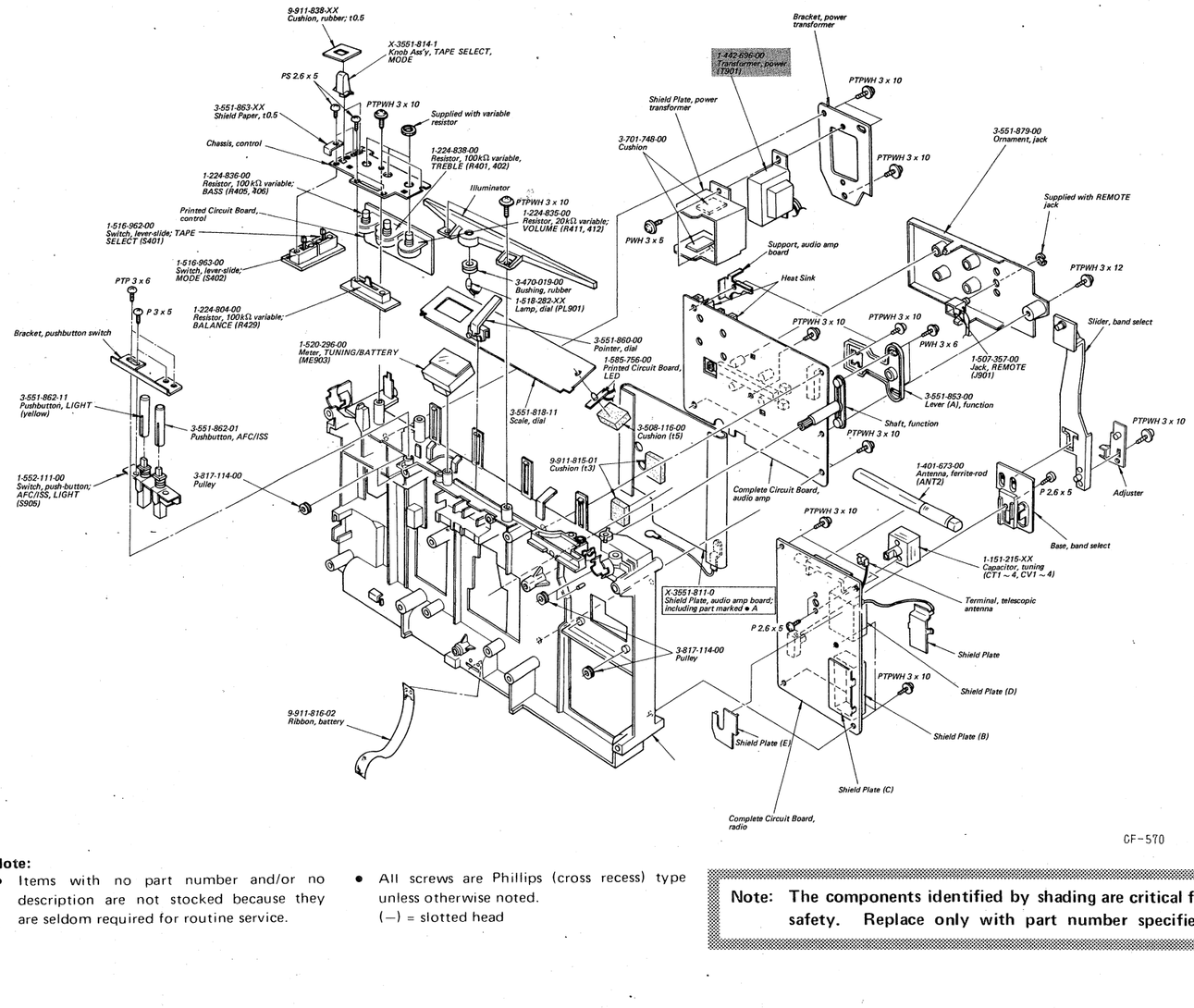

3-548-910-00 Arm, handle
B 3 x 8
3-548-954-31 Handle
B 2 x 8
3-548-911-00 Collar (A), handle
1-501-168-00 Antenna, telescopic (ANT1)
3-548-318-00 TA, P 4 x 95
3-703-043-21 Label, caution
Bracket, telescopic antenna
3-551-897-00 (US model)
3-551-898-00 (Canadian model) Label, specification
3-701-447-01 Washer, thrust
3-548-341-00 Washer
PTPWH 3 x 10
LW5, external tooth
N5
3-551-820-00 Knob, TREBLE, BASS
3-551-823-00 Knob, BALANCE
3-551-821-00 Knob, VOLUME
3-548-959-00 Washer, wave
1-502-642-00 Speaker, woofer (SP803)
3-548-340-00 Collar (B), handle
3-422-017-00 Washer
PWH 3 x 6
• B 3-551-835-00 Panel, left side
1-502-643-00 Speaker, tweeter (SP801)
PTPWH 3 x 10
PTPWH 3 x 8
Lug 3
Same as left side
Printed Circuit Board, headphone jack
1-585-756-00 Printed Circuit Board, LED
3-548-216-00 Knob, band select
See exploded view 5-2 and 5-3.
3-551-882-00 Case, rear
3-551-819-00 Knob, TUNING
1-502-642-00 Speaker, woofer (SP804)
1-507-512-00 Jack, binaural; PHONES (JB01)
• E Grille, tweeter
• H 3-551-870-11 Panel, control
• C 3-551-836-00 Panel, front
• F 3-551-839-00 Ornament, tuning knob
1-502-643-00 Speaker, tweeter (SP802)
A-3246-010-A Lid Ass'y, battery
X-3551-807-1 Lid Ass'y, cassette
• A 3-551-834-00 Panel, right side
• E 3-551-840-00 Grille, tweeter
3-548-910-00 Arm, handle
• D 3-551-838-00 Grille, woofer
• G Window, dial scale
X-3551-815-2 Case Ass'y, front; including parts marked • A ~ H
3-548-911-00 Collar (A), handle

CF-570

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head

5-2.

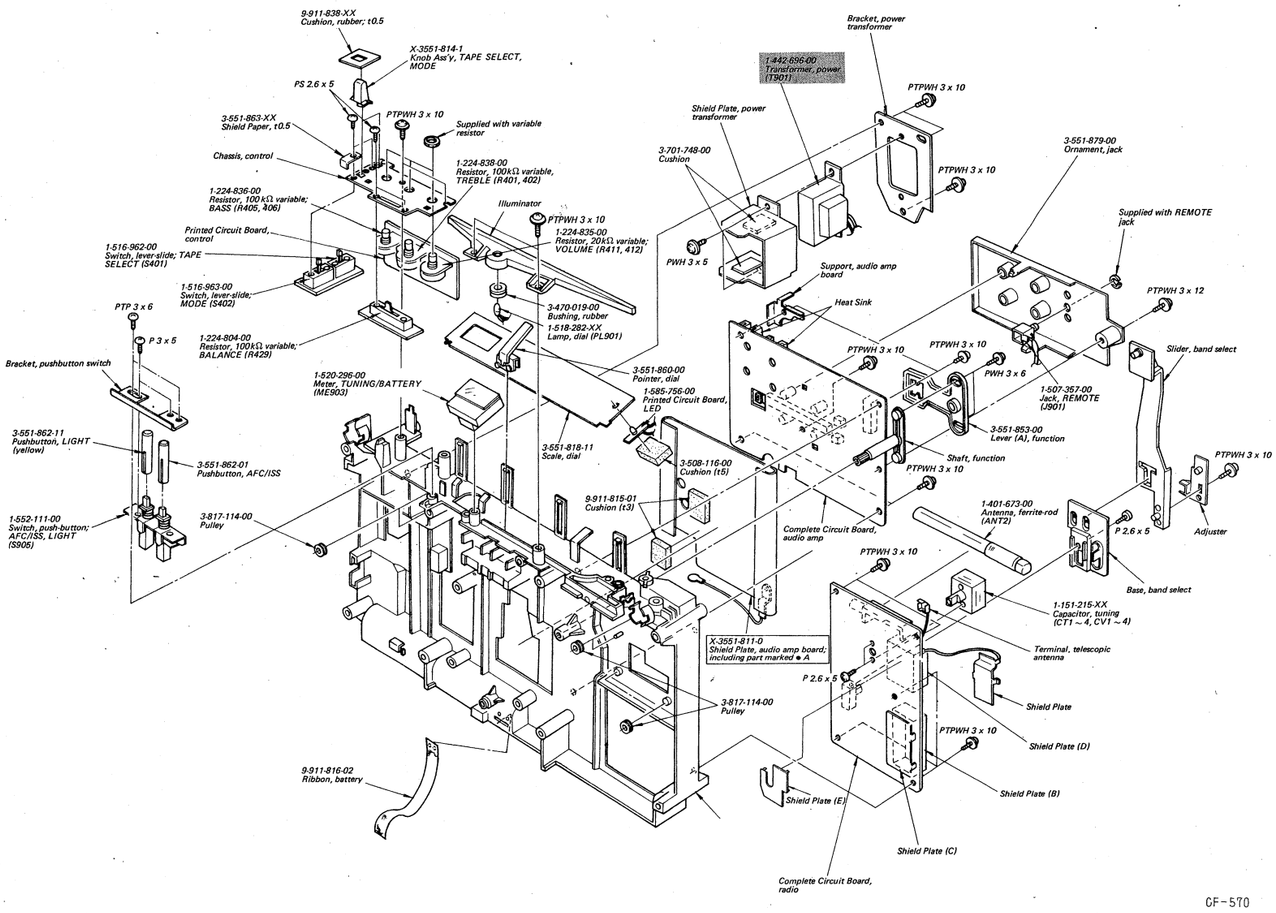


CF-570

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head

Note: The components identified by shading are critical for safety. Replace only with part number specified.

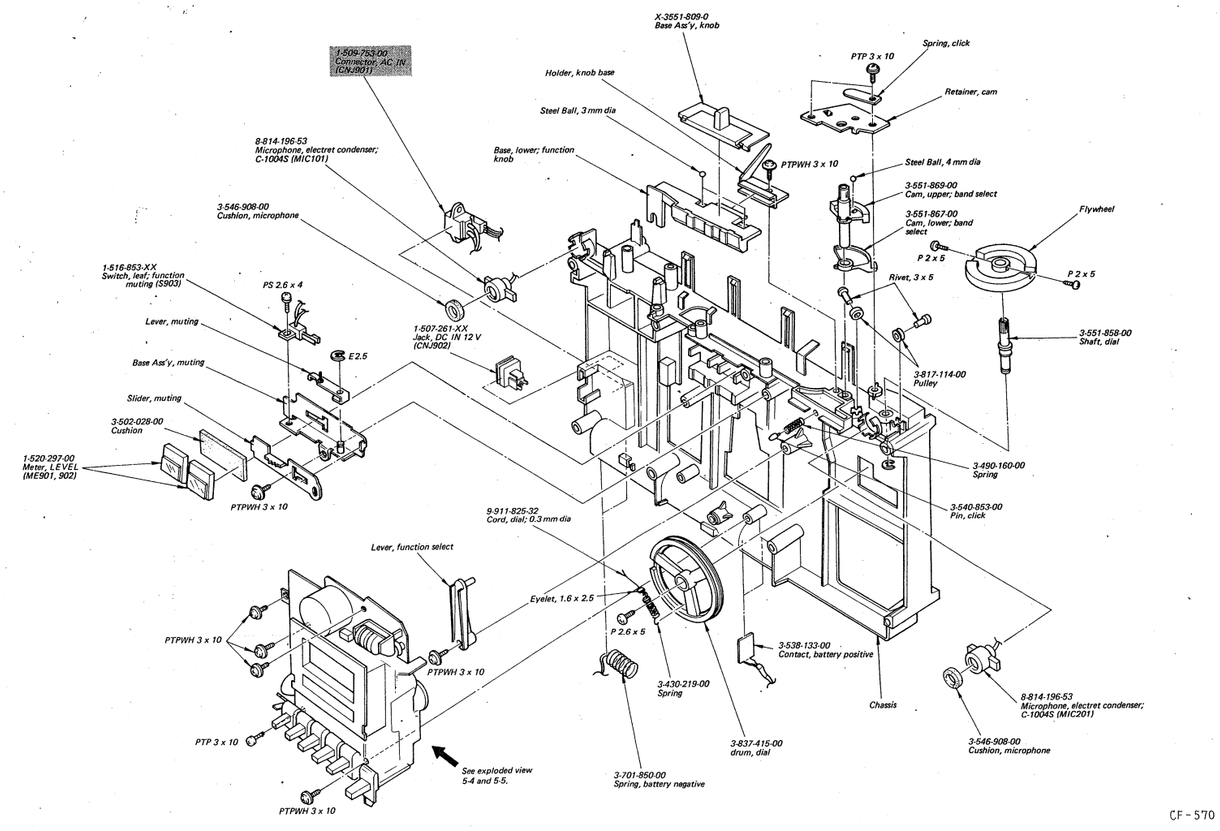


CF-570

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head

Note: The components identified by shading are critical for safety. Replace only with part number specified.



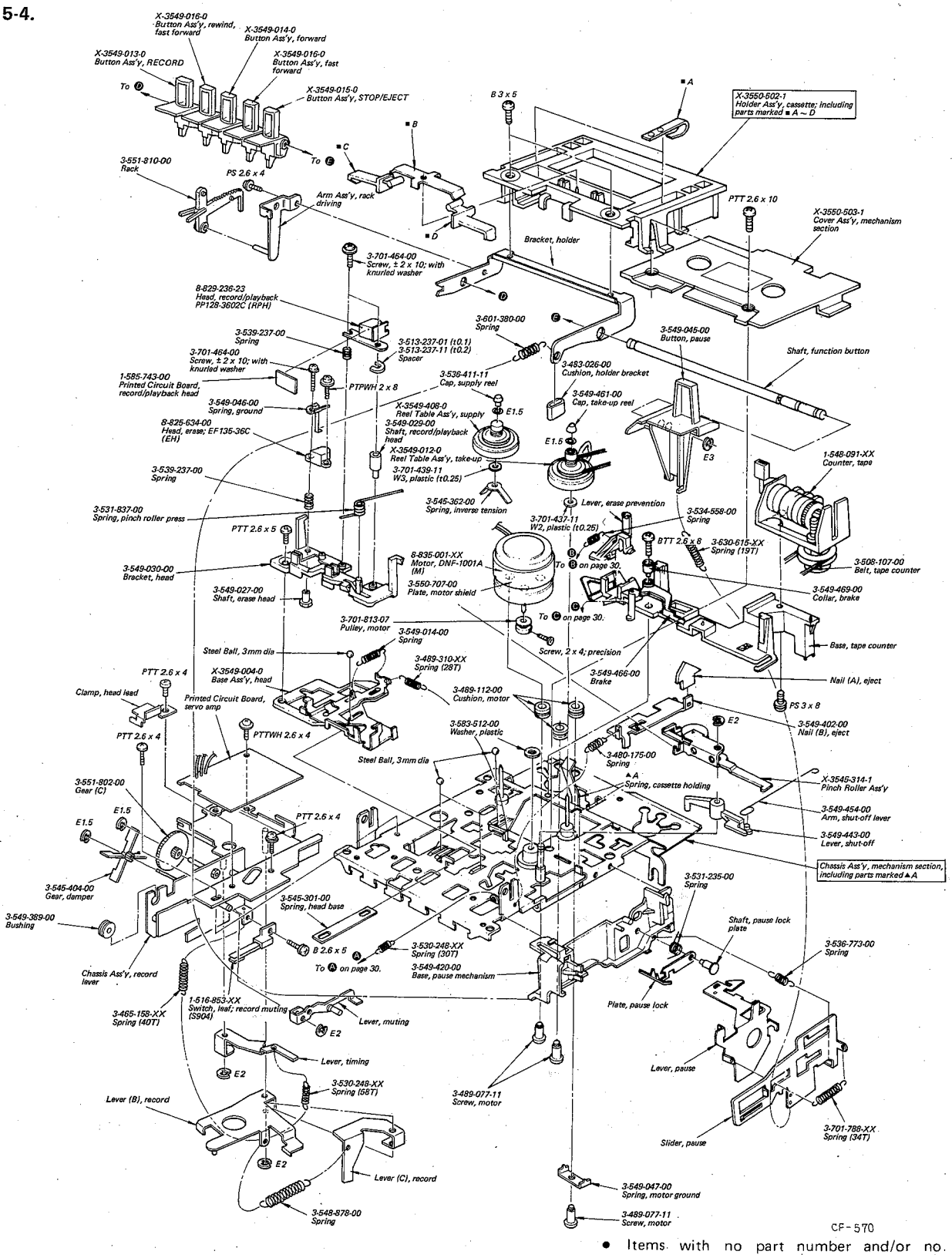
CF-570

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head

Note: The components identified by shading are critical for safety. Replace only with part number specified.

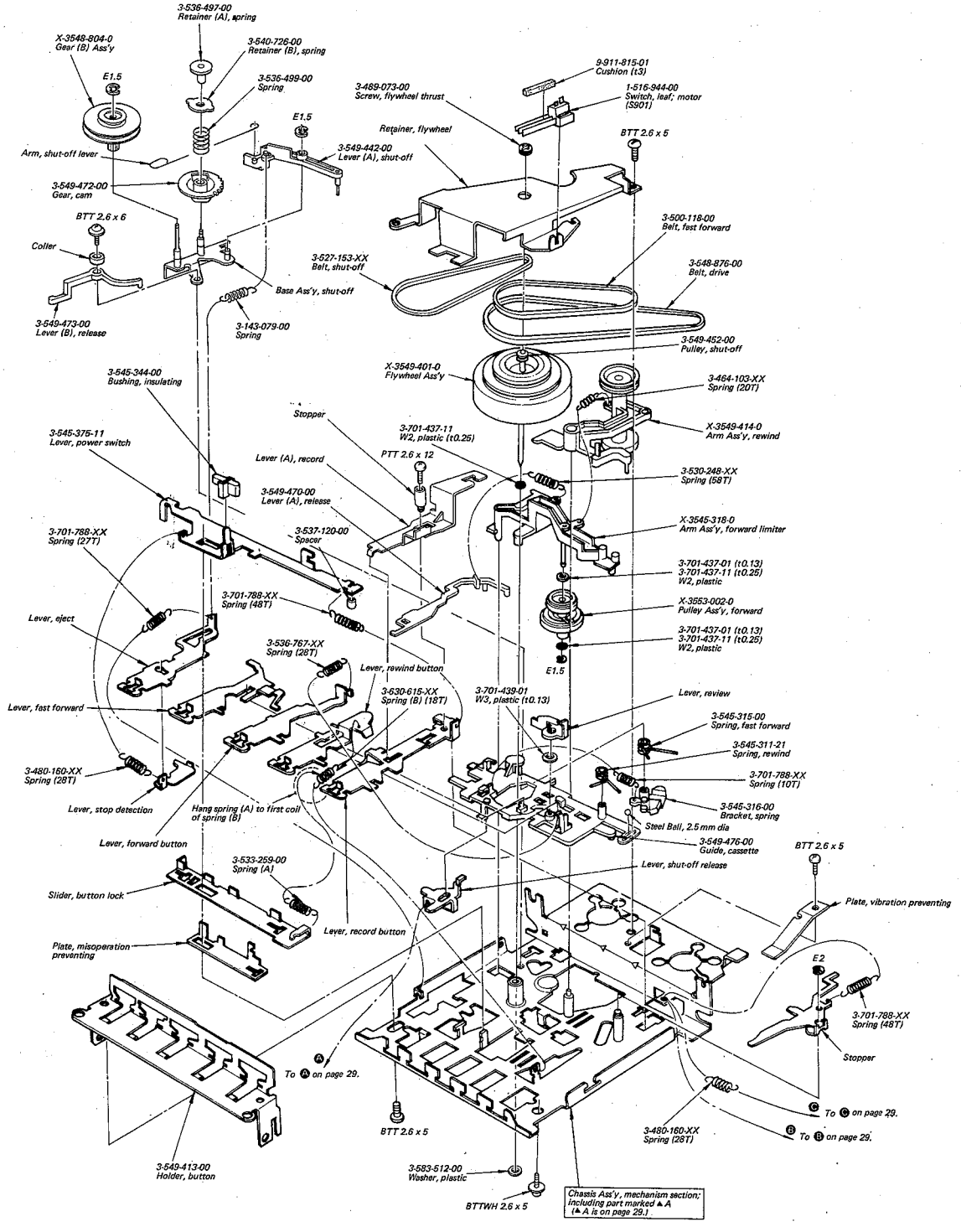
5-4.



CF-570

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (−) = slotted head
- (□T) shows the number of coils in spring.

5-5.



- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- (□T) shows the number of coils in spring.

Ref. No.	Part No.	Description
	PRINTED CIRCUIT BOARD	
	1-585-743-00	Record/Playback Head
	1-585-756-00	LED
	SEMICONDUCTORS	
	Transistors	
Q1, 2, 4, 7, 9		2SC710
Q3, 5, 6, 8		2SC710
⇒ Q101, 201		2SC632A
⇒ Q102, 202		2SC634A
⇒ Q103, 203		
⇒ Q104, 204		2SC632A
⇒ Q105, 205		2SC634A
⇒ Q106, 206		
⇒ Q301		2SC634A
Q302		2SC1173
⇒ Q303		2SC634A
Q601		2SC1761
⇒ Q602		2SB324
⇒ Q603		2SC634A
	ICs	
IC1		LA3301
IC101, 201		HA1306W
	Diodes	
⇒ D1		1S2687S-1
D2, 3		1T261
D4, 5		1T22A
⇒ D101, 201		1S1555
⇒ D102, 202		1T22A
⇒ D103, 203		
D301, 302		10E2
⇒ D303		EQB01-08
⇒ D304		1T22A
⇒ D601		10E2
⇒ D602		1S1555
D901, 902		SLP24B

Ref. No.	Part No.	Description
	Thermistor	
Th601	1-800-199-11	S-1250
	COILS	
L2	1-425-632-00	FM RF
L3	1-459-157-00	FM Osc
L4	1-407-175-XX	330 μH, microinductor
L5	1-401-526-00	Antenna
L101, 201	1-407-879-00	33 mH, microinductor
L601, 602	1-407-484-00	3.3 μH, microinductor
	TRANSFORMERS	
T1	1-403-872-00	FM IFT
T2	1-403-952-00	FM Discriminator, primary
T3	1-403-953-00	FM Discriminator, secondary
T4	1-404-041-00	AM IFT, detect stage
T5	1-405-655-00	AM Osc
T6, 7	1-425-956-00	MPX
T101, 201	1-427-420-00	Line
T901	1-442-696-00	Power
	FILTERS	
CF1, 2	1-527-184-XX	Filter, ceramic; 10.7 MHz
CFT	1-403-144-00	AM IFT, triple tune; with ceramic filter
CP1	1-231-286-11	BPF, FM
	CAPACITORS	
All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF = μμF, elect = electrolytic		
C1	1-102-942-11	5 p
C2, 3	1-101-923-11	0.01
C4	1-102-959-11	22 p
C5 ~ 8	1-101-923-11	0.01
C9	1-102-937-11	4 p
C10	1-102-945-11	8 p
C11	1-102-964-11	36 p

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description		
C12	1-102-950-11	13 p		
C13	1-102-935-11	2 p		
C14	1-102-942-11	5 p		
C15	1-121-726-11	0.47	50 V	elect
C16	1-101-923-11	0.01		
C17	1-101-924-11	0.022		
C18	1-101-923-11	0.01		
C19	1-101-924-11	0.022		
C20	1-101-923-11	0.01		
C21	1-121-651-11	10	16 V	elect
C22, 23	1-102-978-11	220 p		
C24	1-121-352-11	47	10 V	elect
C25	1-102-975-11	100 p		
C26	1-121-420-11	220	10 V	elect
C27	1-121-414-11	100	10 V	elect
C28	1-102-114-11	470 p		
C29	1-101-923-11	0.01		
C30	1-102-936-11	3 p		
C31	1-101-924-11	0.022		
C33	1-161-013-11	0.01		(bounday layer)
C34	1-101-924-11	0.022		
C35	1-121-479-11	22	16 V	elect
C36	1-101-923-11	0.01		
C37	1-101-924-11	0.022		
C38, 39	1-161-013-11	0.01		(boundary layer)
C40	1-121-413-11	100	6.3 V	elect
C41	1-103-734-11	2400 p		polystyrol
C42	1-103-749-11	10000 p		polystyrol
C43	1-161-003-11	0.0015		
C44	1-121-391-11	1	50 V	elect
C45	1-121-651-11	10	16 V	elect
C46, 47	1-121-395-11	4.7	25 V	elect
C48 ~ 51	1-161-005-11	0.0022		(boundary layer)
C52, 53	1-161-003-11	0.0015		
C54, 55	1-161-008-11	0.0039		

Ref. No.	Part No.	Description		
C56	1-102-935-11	2 p		
C57 ~ 59	1-101-923-11	0.01		
C60	1-102-958-11	20 p		
C101, 201	1-127-019-11	0.1	16 V	solid aluminum
C102, 202	1-121-395-11	4.7	25 V	elect
C103, 203	1-107-119-11	33 p		silvered mica
C104, 204	1-101-918-11	0.001		
C106, 206	1-121-391-11	1	50 V	elect
C107, 207	1-121-414-11	100	10 V	elect
C108, 208	1-121-726-11	0.47	50 V	elect
C109, 209	1-102-074-11	0.001		
C110, 210	1-121-726-11	0.47	50 V	elect
C111, 211	1-121-651-11	10	16 V	elect
C112, 212	1-121-415-11	100	16 V	elect
C113, 213	1-101-918-11	0.001		
C114, 214	1-121-651-11	10	16 V	elect
C115, 215	1-107-131-11	100 p		silvered mica
C116, 216	1-121-413-11	100	6.3 V	elect
C117, 217	1-121-651-11	10	16 V	elect
C118, 218	1-121-352-11	47	10 V	elect
C119, 219	1-161-001-11	0.001		(boundary layer)
C120, 220	1-161-017-11	0.022		(boundary layer)
C121, 221, C122, 222	1-107-119-11	33 p		silvered mica
C123, 223	1-161-001-11	0.001		(boundary layer)
C124, 224	1-161-002-11	0.0012		(boundary layer)
C126, 226	1-107-129-11	82 p		silvered mica
C127, 227	1-107-115-11	22 p		silvered mica
C128, 228	1-107-121-11	39 p		silvered mica
C129, 229	1-102-074-11	0.001		
C130, 230	1-121-391-11	1	50 V	elect
C131, 231	1-121-651-11	10	16 V	elect
C132, 232	1-121-392-11	3.3	25 V	elect

Ref. No.	Part No.	Description		
C133, 233	1-102-074-11	0.001		
C134, 234	1-121-726-11	0.47	50 V	elect
C135, 235 C136, 236	1-121-413-11	100	6.3 V	elect
C137, 237	1-102-110-11	220 p		
C138, 238	1-161-001-11	0.001		(boundary layer)
C139, 239	1-121-409-11	47	16 V	elect
C140, 240	1-108-249-12	0.0068		mylar
C141, 241	1-108-254-12	0.22		
C142, 242	1-121-736-11	1000	10 V	elect
C143, 243	1-107-253-11	15p + 18p + 22p + 27p	500 V	silvered mica
C144 ~ 146 C244 ~ 246	1-102-110-11	220 p		
C301 ~ 303	1-101-918-11	0.001		
C304, 305	1-121-660-11	2200	16 V	elect
C306	1-121-415-11	100	16 V	elect
C308	1-121-392-11	3.3	25 V	elect
C309	1-121-426-11	470	16 V	elect
C310	1-121-415-11	100	16 V	elect
C311	1-121-420-11	220	10 V	elect
C312	1-129-702-11	0.001	630 V	polyethylene
C313	1-107-006-11	33 p	500 V	silvered mica
C314	1-107-028-11	620 p	500 V	silvered mica
C315	1-107-200-11	430 p	500 V	silvered mica
C316, 317	1-121-479-11	22	16 V	elect
C318	1-121-402-11	33	10 V	elect
C319	1-121-391-11	1	50 V	elect
C401, 402	1-161-006-11	0.0027		(boundary layer)
C403, 404	1-161-015-11	0.015		(boundary layer)
C405, 406	1-161-018-11	0.027		(boundary layer)
C407, 408	1-161-025-11	0.1		
C415	1-101-004-11	0.01		

Ref. No.	Part No.	Description		
C601	1-121-413-11	100	6.3 V	elect
C602	1-121-424-11	470	6.3 V	elect
C603	1-121-409-11	47	16 V	elect
C604	1-121-426-11	470	16 V	elect
C801, 802	1-119-426-11	3.3	50 V	elect
CT1 ~ 4 CV1 ~ 4	1-151-215-XX	Capacitor, tuning		

RESISTORS

All resistors are in ohms. Common ¼ W carbon resistors are omitted. Check schematic diagram for values.

R54, 127, 227	1-222-761-11	1 k		adjustable
R138	1-222-762-11	2.2 k		adjustable
R213	1-222-766-11	100 k		adjustable
R302	1-213-084-11	100	1 W	fuse
R315	1-222-764-11	22 k		adjustable
R401, 402	1-224-838-00	100 k		variable, TREBLE
R405, 406	1-224-836-00	100 k		variable, BASS
R411, 412	1-224-835-00	20 k		variable, VOLUME
R429	1-224-804-00	100 k,		variable, BALANCE
R608	1-222-761-11	1 k		adjustable

SWITCHES

S1	1-516-786-XX	Slide, band select
S101	1-552-113-00	Slide, REC/PB
S102	1-552-112-00	Slide, function
S401	1-516-962-00	Lever-slide, TAPE SELECT
S402	1-516-963-00	Lever-slide, MODE
S901	1-516-944-00	Leaf, motor
S902		Included in AC INPUT connector (CNJ901)
S903, 904	1-516-853-XX	Leaf, function muting, record muting
S905	1-552-111-00	Pushbutton, AFC/ISS, LIGHT

JACKS

J101, 201	1-507-450-00	Phone, mini; MIC

Note: The components identified by shading are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*
J102, 202 J103, 203	1-507-451-00	Phono, LINE IN, LINE OUT
J801	1-507-512-00	Binaural, PHONES
J901	1-507-357-00	Binaural, REMOTE
CNJ901	1-509-753-00	Connector, AC IN
CNJ902	1-507-261-XX	Connector, DC IN 12 V

MISCELLANEOUS

ANT1	1-501-168-00	Antenna, FM telescopic
ANT2	1-401-673-00	Antenna, AM ferrite-rod
CP301	1-464-025-00	Unit, record bias osc
EH	8-825-634-00	Head, erase; EF135-36C
M	8-835-001-XX	Motor, DNF-1001A
ME901, 902	1-520-297-00	Meter, LEVEL
ME903	1-520-296-00	Meter, TUNING/BATTERY
MIC101, 201	8-814-196-53	Microphone, electret condenser; C-1004S
PL901	1-518-282-XX	Lamp, dial
RPH	8-829-236-23	Head; record/playback PP128-3602C
SP801, 802	1-502-643-00	Speaker, tweeter
SP803, 804	1-502-642-00	Speaker, woofer

ACCESSORIES AND PACKING MATERIALS

Part No.	*Description*
X-3551-816-1	Manual Ass'y, instruction (Canadian model)
X-3551-817-1	Manual Ass'y, instruction (US model)
X-3701-018-2	Tips Ass'y, head cleaning
1-534-867-00	Cord, power; DK-35 (US model)
1-551-002-00	Cord, power (Canadian model)
3-551-875-00	Bag, set
3-551-880-00	Cushion, right
3-551-881-00	Cushion, left
3-551-892-00	Spacer, front
3-551-902-00	Carton
3-701-632-00	Bag, plastic
3-701-730-00	Bag, plastic; IBM card
3-701-742-00	Card, IBM
3-793-455-11	Tag, caution
3-793-828-11	Card, cassette caution
8-893-511-00	Cassette Tape, demonstration; CD-806

Note: The components identified by shading are critical for safety. Replace only with part number specified.

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